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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1913.]

NOTE.—Copies of any of the publications listed herein, **except publications of the Weather Bureau**, may be obtained **free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C.**, as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

The Superintendent of Documents is not connected with the Department of Agriculture, **and all remittances for publications should be sent directly to Superintendent of Documents, Government Printing Office, Washington, D. C.**, by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Wayne County, Mississippi. By A. L. Goodman and Grove B. Jones, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 35, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Bedford County, Pennsylvania. By Charles J. Mann, of the U. S. Department of Agriculture, and W. E. Gross, of the Pennsylvania State College. Pp. 60, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Bradford County, Pennsylvania. By Percy O. Wood, of the U. S. Department of Agriculture, and J. M. McKee, L. M. Skemp, W. B. Nissley, and J. B. R. Dickey, of the Pennsylvania State College. Pp. 41, fig. 1. Map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of the Huntington Area, West Virginia. By W. J. Latimer. Pp. 44, pls. 2, fig. 1. Maps 2. (From F. O. Soils, 1911.) Price, 15 cents.

REPORTS.

NEW.

Annual Report of the Office of Experiment Stations for the year ending June 30, 1911. Pp. 388, pls. 15. Price, 30 cents paper, 45 cents board.

Field Operations of the Bureau of Soils, 1910. (Twelfth Report). By Milton Whitney, Chief. With accompanying papers by assistants in charge of field parties. Pp. 1772, pls. 31, figs. 52, maps 43 (in case). Price, \$4.75. (For distribution also by Senators, Representatives, and Delegates in Congress.)

BULLETINS.

NEW.

The Influence of the Stage of Lactation on the Composition and Properties of Milk. By C. H. Eckles, Professor of Dairy Husbandry, University of Missouri, and Roscoe H. Shaw, Chemist, Dairy Division, Bureau of Animal Industry. Pp. 88, figs. 14. (Bulletin 155, Bureau of Animal Industry.) Price, 10 cents.

- The Influence of Breed and Individuality on the Composition and Properties of Milk. By C. H. Eckles, Professor of Dairy Husbandry, University of Missouri, and Roscoe H. Shaw, Chemist, Dairy Division, Bureau of Animal Industry. Pp. 27, fig. 1. (Bulletin 156, Bureau of Animal Industry.) Price, 5 cents.
- Variations in the Composition and Properties of Milk from the Individual Cow. By C. H. Eckles, Professor of Dairy Husbandry, University of Missouri, and Roscoe H. Shaw, Chemist, Dairy Division, Bureau of Animal Industry. Pp. 27. (Bulletin 157, Bureau of Animal Industry.) Price, 5 cents.
- Index to Papers Relating to the Food of Birds by Members of the Biological Survey in Publications of the United States Department of Agriculture, 1885-1911. By W. L. McAtee, Assistant, Biological Survey. Pp. 69. (Bulletin 43, Bureau of Biological Survey.) Price, 10 cents.
- Pulp and Paper and Other Products from Waste Resinous Woods. By F. P. Veitch, Chief, Leather and Paper Laboratory, and J. L. Merrill, Assistant Chemist. Pp. 28. (Bulletin 159, Bureau of Chemistry.) Price, 5 cents.
- An Index to Catalogues of Recently Described Coccidæ Included in the Technical Series Nos. 12 and 16. By E. R. Sasser, Scientific Assistant. Pp. 99-116. (Technical Series No. 16, Part 7, Bureau of Entomology.) Price, 5 cents.
- Some Insects Injurious to Truck Crops. I. The Colorado Potato Beetle in Virginia in 1908. By C. H. Popenoe. II. The Parsnip Leaf-Miner; The Parsley Stalk Weevil; The Celery Caterpillar. By F. H. Chittenden. III. The Lima-Bean Pod-Borer; The Yellow-Necked Flea-Beetle. By F. H. Chittenden. IV. The Life History and Control of the Hop Flea-Beetle. By William B. Parker. V. Biologic and Economic Notes on the Yellow-Bear Caterpillar. By H. O. Marsh. VI. Notes on the Cucumber Beetles. By F. H. Chittenden. Biological Notes on Species of *Diabrotica* in Southern Texas. By H. O. Marsh. VII. Notes on Various Truck-Crop Insects. By F. H. Chittenden. Pp. 108, pls. 4, figs. 24. (Bulletin 82, Bureau of Entomology.) Price, 20 cents.
- Hydrocyanic-Acid Gas Fumigation in California. I. Fumigation of Citrus Trees. By R. S. Woglum. II. The Value of Sodium Cyanid for Fumigation Purposes. By R. S. Woglum. III. Chemistry of Fumigation with Hydrocyanic-Acid Gas. By C. C. McDonnell. Pp. 113, pls. 10, figs. 13. (Bulletin 90, Bureau of Entomology.) Price, 20 cents.
- The Horse-Radish Webworm. By H. O. Marsh, Entomological Assistant. Pp. 71-76, figs. 4. (Bulletin 109, Part 7, Bureau of Entomology.) Price, 5 cents.
- Life History of the Codling Moth in the Santa Clara Valley of California. By P. R. Jones and W. M. Davidson, Entomological Assistants, Deciduous Fruit Insect Investigations. Pp. 113-180. Fig. 13. (Bulletin 115, Part 3, Bureau of Entomology.) Price, 10 cents.
- The Cherry Fruit Sawfly. By S. W. Foster, Entomological Assistant. Pp. 73-79, pls. 2, figs. 2. (Bulletin 116, Part 3, Bureau of Entomology.) Price, 5 cents.
- Lime-Sulphur as a Stomach Poison for Insects. By E. W. Scott and E. H. Siegler, Entomological Assistants, Deciduous Fruit Insect Investigations. Pp. 81-90, pl. 1. (Bulletin 116, Part 4, Bureau of Entomology.) Price, 5 cents.
- Experiment Station Record, Vol. XXVII, No. 7, November, 1912. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price, 15 cents.
- Same, Vol. XXVII, No. 8, December, 1912. Pp. 701-800. Price 15 cents.
- Same, Vol. XXVII, No. 9. Abstract Number. Pp. 801-900. Price, 15 cents.
- The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.
- Wood Turpentine: Their Analysis, Refining, and Composition, Based upon Experiments at the Forest Products Laboratory at Madison, Wis. By L. F. Hawley, Chemist in Forest Products. Pp. 69, figs. 54. (Bulletin 105, Forest Service.) Price, 15 cents.
- Mechanical Properties of Western Hemlock. By O. P. M. Goss, Engineer in Forest Products. Pp. 45, pls. 6, figs. 13. (Bulletin 115, Forest Service.) Price, 15 cents.

- An Examination of the Oleoresins of Some Western Pines. By A. W. Schorger, Chemist in Forest Products. Pp. 36, pl. 1, figs. 4. (Bulletin 119, Forest Service.) Price, 5 cents.
- Mechanical Properties of Western Larch. By O. P. M. Goss, Engineer in Forest Products. Pp. 45, pls. 4, figs. 14. (Bulletin 122, Forest Service.) Price, 10 cents.
- The Composite Type on the Apache National Forest. By Harold H. Greenamyre, Forest Assistant. Pp. 32, figs. 4. (Bulletin 125, Forest Service.) Price, 5 cents.
- Monthly Bulletin of the Library, November, 1912. Vol. 3, No. 11. Pp. 334-364. (Library.) Price, 5 cents.
- Studies of Fungous Parasites Belonging to the Genus *Glomerella*. By C. L. Shear, Pathologist, and Anna K. Wood, Formerly Scientific Assistant, Fruit-Disease Investigations. Pp. 110, pls. 18, figs. 4. (Bulletin 252, Bureau of Plant Industry.) Price, 20 cents.
- The Kaoliangs: A New Group of Grain-Sorghums. By Carleton R. Ball, Agronomist in Charge of Grain-Sorghum and Broom-Corn Investigations. Pp. 64, pls. 2, figs. 15. (Bulletin 253, Bureau of Plant Industry.) Price, 15 cents.
- Heredity and Cotton Breeding. By O. F. Cook, Bionomist in charge of Crop Acclimatization and Adaptation Investigations. Pp. 113, pls. 6, figs. 19. (Bulletin 256, Bureau of Plant Industry.) Price, 15 cents.
- Some New Alfalfa Varieties for Pasture. By George W. Oliver, Plant Breeder and Propagator. Pp. 39, pls. 11. (Bulletin 258, Bureau of Plant Industry.) Price, 15 cents.
- Methods Used in Breeding Asparagus for Rust Resistance. By J. B. Norton, Physiologist, Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 60, pls. 18, figs. 4. (Bulletin 263, Bureau of Plant Industry.) Price, 20 cents.
- The Purpling Chromogen of a Hawaiian *Dioscorea*. By Hartley Harris Bartlett, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 19, pl. 1, fig. 1. (Bulletin 264, Bureau of Plant Industry.) Price, 10 cents.
- Tobacco Marketing in the United States. By E. H. Mathewson, Crop Technologist, Tobacco Investigations. Pp. 67, figs. 10. (Bulletin 268, Bureau of Plant Industry.) Price, 10 cents.
- Heredity of a Maize Variation. By G. N. Collins, Botanist, Crop Acclimatization and Adaptation Investigations. Pp. 23, pl. 1, fig. 1. (Bulletin 272, Bureau of Plant Industry.) Price, 5 cents.
- Some Organic Soil Constituents. By Edmund C. Shorey, Scientist in Soil Fertility Investigations. Pp. 41, pl. 1. (Bulletin 88, Bureau of Soils.) Price, 10 cents.
- List of Agricultural Fairs and Exhibitions in the United States. By George K. Holmes, Chief of Division of Production and Distribution. Pp. 68. (Bulletin 102, Bureau of Statistics.) Price, 10 cents.

CIRCULARS.

NEW.

- The Seed-Importation Act of August 24, 1912. Pp. 6. (Circular 42, Office of the Secretary.)
- The Organization of Girls' Poultry Clubs. By Harry M. Lamon, Senior Animal Husbandman in Poultry Investigations, Animal Husbandry Division. Pp. 11, fig. 5. (Circular 208, Bureau of Animal Industry.)
- The Detection of Faulty Sizing in High-Grade Papers. By C. Frank Sammet, Assistant Chemist, Leather and Paper Laboratory. Pp. 3, pls. 3. (Circular 107, Bureau of Chemistry.)
- A Chemical Investigation of the Composition of the Oil of *Chenopodium*. By E. K. Nelson, Chief, Essential Oils Laboratory, Division of Drugs. Pp. 8. (Circular 109, Bureau of Chemistry.)
- The Gipsy Moth as a Forest Insect, With Suggestions as to its Control. By W. F. Fiske, Agent and Expert. Pp. 20. (Circular 164, Bureau of Entomology.)
- Flour Paste as a Control for Red Spiders and as a Spreader for Contact Insecticides. By William B. Parker, Entomological Assistant. Pp. 5, figs. 2. (Circular 166, Bureau of Entomology.)
- The Movement of the Cotton Boll Weevil in 1912. By W. D. Hunter and W. D. Pierce, of Southern Field Crop Insect Investigations. Pp. 3, fig. 1. (Circular 167, Bureau of Entomology.)
- Sacbrood, A Disease of Bees. By G. F. White, M. D., Ph. D., Expert in Bacteriology. Pp. 5. (Circular 169, Bureau of Entomology.)

- Forest Fire Protection under the Weeks Law in Cooperation with States. By J. Girvin Peters. Pp. 14, map. (Circular 205, Forest Service, First Revision.)
- Greenheart. By C. D. Mell, Assistant Dendrologist, and W. D. Brush, Expert. Pp. 12, pls. 4. (Circular 211, Forest Service.)
- Circassian Walnut. By George B. Sudworth, Dendrologist, and Clayton D. Mell, Assistant Dendrologist. Pp. 12, pls. 5. (Circular 212, Forest Service.)
- Miscellaneous Papers. [I] United States Official Cotton Grades. By N. A. Cobb. [II] Potato Leaf-Roll. By W. A. Orton. [III] Morphology of Cotton Branches. By O. F. Cook. [IV] The Wilting Coefficient for Plants in Alkali Soils. By T. H. Kearney. [V] Interpreting the Variation of Plat Yields. By F. D. Farrell. Pp. 32. (Circular 199. Bureau of Plant Industry.)
- Miscellaneous Papers. [I] Grass Demonstrations in the South. [II] Some Asiatic Actinidias. By David Fairchild. [III] Powdery Dry-Rot of the Potato. By W. A. Orton. [IV] Preparation of Land for Egyptian Cotton in the Salt River Valley, Arizona. By E. W. Hudson. [V] Agriculture on the Truckee-Carson Project: Vegetables for the Home Garden. By F. B. Headley and Vincent Fulkerson. [VI] Fungous Staining of Cotton Fibers. By Albert Mann. [VII] The Jack Bean and Sword Bean. By C. V. Piper. [VIII] Fiber from Different Pickings of Egyptian Cotton. By T. H. Kearney. Pp. 39, pls. 3, figs. 2. (Circular 110, Bureau of Plant Industry.)
- Monthly List of Publications for December, 1912. Pp. 4. (Document 778, Division of Publications.)
- The Organic Constituents of Soils. By Oswald Schreiner, Scientist in Charge, Soil Fertility Investigations. Pp. 18. (Circular 74, Bureau of Soils.)
- Manganese as a Fertilizer. By M. X. Sullivan and W. O. Robinson. Pp. 3. (Circular 75, Bureau of Soils.)
- Tobacco Crop, 1912. By Types and Districts. By J. P. Killebrew, Special Agent for Tobacco, Bureau of Statistics. Pp. 8. (Circular 43, Bureau of Statistics.)
- Foreign Crops, December, 1912. By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 18. (Circular 44, Bureau of Statistics.)
- Crop Reporter, Vol. 15, No. 1, January, 1913. Pp. 1-8. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETIN.

NEW.

- An Example of Intensive Farming in the Cotton Belt. By M. A. Crosby, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 13, figs. 7. (Farmers' Bulletin 519.)

PUBLICATIONS OF THE WEATHER BUREAU.

- [Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]
- Monthly Weather Review, Vol. 40, No. 10, October, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1457-1609, maps 2, charts 7. (W. B. No. 495.) Price, 35 cents; \$4 a year.
- National Monthly Weather Bulletin No. 31, for December, 1912, reporting temperature and rainfall with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.
- Snow and Ice Bulletins for January 2, 7, 14, 21, 28. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.
- For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,
Editor and Chief.

Approved:
JAMES WILSON,
Secretary of Agriculture.

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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *February 28, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1913.]

NOTE.—Copies of any of the publications listed herein, **except publications of the Weather Bureau**, may be obtained **free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C.**, as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of the Quincy Area, Washington. By A. W. Mangum, Cornelius Van Duyne, and H. L. Westover. Pp. 64, pls. 3, figs. 7, map. (From F. O. Soils, 1911.) Price, 15 cents.

BULLETINS.

NEW.

Dairy Herd Records. (From 1899 to 1908, inclusive.) A Digest Prepared by the Dairy Division from Data Collected by W. D. Hoard. Pp. 57. (Bulletin 164, Bureau of Animal Industry.) Price, 10 cents.

Technical Papers on Miscellaneous Forest Insects. VI. Chalcidids Injurious to Forest-Trees Seeds. By S. A. Rohwer, Entomological Assistant. Pp. 157-163. (Technical Series, No. 20, Part 6, Bureau of Entomology.) Price, 5 cents.

The Dispersion of the Gipsy Moth. By A. F. Burgess, Expert in Charge of Biological Investigations. Pp. 62, pls. 16, figs. 6, map. (Bulletin 119, Bureau of Entomology.) Price, 20 cents.

Report of a Trip to India and the Orient in Search of the Natural Enemies of the Citrus White Fly. By Russell S. Woglum, Entomological Assistant. Pp. 58, pls. 12, figs. 2. (Bulletin 120, Bureau of Entomology.) Price, 15 cents.

Contents and Index to Bulletin 95, Bureau of Entomology, Papers on Cereal and Forage Insects. Pp. xii+119-128. Price, 5 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. December, 1912. Pp. 114. (Bulletin 253, Office of Experiment Stations.) Price, 10 cents.

Experiment Station Record Vol. XXVIII, No. 1, January, 1913. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Forestation of the Sand Hills of Nebraska and Kansas. By Carlos G. Bates, Forest Assistant, and Roy G. Pierce, Deputy Supervisor. Pp. 49, pls. 13, figs. 1. (Bulletin 121, Forest Service.) Price, 10 cents.

Monthly Bulletin of the Library, December, 1912. Vol. 3, No. 12. Pp. 366-390. (Library.) Price, 5 cents.

Contents and Author Index to Monthly Bulletin of the Library, Vol. 2, 1912. Pp. iii+367-471. (Library.) Price, 5 cents.

The Persian Walnut Industry of the United States. By E. R. Lake, Assistant Pomologist, Pomological Collections. Pp. 112, pls. 11, figs. 24. (Bulletin 254, Bureau of Plant Industry.) Price, 20 cents.

The Destruction of Cellulose by Bacteria and Filamentous Fungi. By I. G. McBeth, Physiologist, and F. M. Scales, Assistant Soil Mycologist, Soil-Bacteriology and Plant-Nutrition Investigations. Pp. 50, pls. 4. (Bulletin 266, Bureau of Plant Industry.) Price, 10 cents.

Nonperennial Medicagos: The Agronomic Value and Botanical Relationship of the Species. By Roland McKee, Scientific Assistant, Office of Forage-Crop Investigations, and P. L. Ricker, Assistant Botanist, Office of Taxonomic and Range Investigations. Pp. 38, pls. 13. (Bulletin 267, Bureau of Plant Industry.) Price, 15 cents.

Data for Use in Designing Culverts and Short-Span Bridges. By Charles H. Moorefield, Highway Engineer, Office of Public Roads. Pp. 39, pls. 16, figs. 4. (Bulletin 45, Office of Public Roads.) Price, 15 cents.

Field Records Relating to Subsoil Water. By W J McGee, Expert in Charge, Soil Water Investigations. Pp. 40. (Bulletin 93, Bureau of Soils.) Price, 5 cents.

International Trade in Farm and Forest Products, 1901-1910. By Eugene Merritt, Division of Production and Distribution. Pp. 57. (Bulletin 103, Bureau of Statistics.) Price, 5 cents.

REPRINTS.

Papers on Deciduous Fruit Insects and Insecticides. The Peach-Tree Barkbeetle. (Bulletin 68, Part 9, Bureau of Entomology.) Price, 5 cents.

The Forest Resources of the World. (Bulletin 83, Forest Service.) Price, 10 cents.

Lightning in Relation to Forest Fires. (Bulletin 111, Forest Service.) Price, 10 cents.

The Weed Factor in the Cultivation of Corn. (Bulletin 257, Bureau of Plant Industry.) Price, 10 cents.

What is Farm Management? (Bulletin 259, Bureau of Plant Industry.) Price, 10 cents.

CIRCULARS.

NEW.

Rule 1, Revision 10.—To Prevent the Spread of Splenic, Southern, or Texas Fever in Cattle. (B. A. I. Order 194.)

Annual Report of the Governor of Alaska on the Alaska Game Law, 1912. By Walter E. Clark, Governor of Alaska. Pp. 14. (Circular 90, Bureau of Biological Survey.)

The Effect of Certain Pigments on Linseed Oil; With a Note on the Manganese Content of Raw Linseed Oil. By E. W. Boughton, Assistant Chemist, Contracts Laboratory. Pp. 7. (Circular 111, Bureau of Chemistry.)

List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. Pp. 13. (Circular 114, Revised, Office of Experiment Stations.)

The Work of the Agricultural Colleges in Training Teachers of Agriculture for Secondary Schools. Pp. 29. (Circular 118, Office of Experiment Stations.)

Experiments in the Control of Grape Anthracnose. By Lon A. Hawkins, Scientific Assistant, Fruit-Disease Investigations. Pp. 8, pls. 2. (Circular 105, Bureau of Plant Industry.)

- A Variety of Maize with Silks Maturing before the Tassels. By G. N. Collins, Botanist, Crop Acclimatization and Adaptation Investigations. Pp. 11, figs. 3. (Circular 107, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] Preliminary Report on Sugar Production from Maize. By C. F. Clark. [II.] Durango Cotton in the Imperial Valley. By O. F. Cook. [III.] Improved Apparatus for Detecting Sulphured Grain. By G. H. Baston. [IV.] Supernumerary Carpels in Cotton Bolls. By R. M. Meade. [V.] Keeping Soft Cuttings Alive for Long Periods. By G. W. Oliver. Pp. 31, figs. 9. (Circular 111, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] Opportunities in Pecan Culture. By C. A. Reed. [II.] The Jonathan Fruit-Spot. By W. M. Scott and J. W. Roberts. [III.] Egyptian Cotton as Affected by Soil Variations. By T. H. Kearney. [IV.] Relation of Stand to Yield in Hops. By W. W. Stockberger and James Thompson. Pp. 32, figs. 2. (Circular 112, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] Soil Bacteriology as a Factor in Crop Production. By K. F. Kellerman. [II.] A New Ornamental Palmetto in Southern Texas. By O. F. Cook. [III.] Commercial Truck Crops on the Truckee-Carson Project. By F. B. Headley and Vincent Fulkerson. [IV.] A Purple-Leaved Mutation in Hemp. By L. H. Dewey. [V.] The Tuber-Unit Method of Seed-Potato Improvement. By William Stuart. Pp. 31, figs. 2. (Circular 113, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] Sowing Flax on Winterkilled Wheat Fields. By M. W. Evans. [II.] Experiments in Subsoiling at San Antonio. By S. H. Hastings and C. R. Letteer. [III.] Control of the Black-Rot and Stem-Rot of the Sweet Potato. By L. L. Harter. [IV.] Bartlett Pear Precooling and Storage Investigations in the Rogue River Valley. By A. V. Stubenrauch and H. J. Ramsey. [V.] Climatic Conditions on the Truckee-Carson Project. By F. B. Headley. Pp. 30, fig. 1. (Circular 114, Bureau of Plant Industry.)
- Monthly List of Publications for January, 1913. Pp. 4. (Document 780, Division of Publications.)
- Foreign Crops: January. Summary, By Countries, of the Area and Production of Cereals, 1908-1912, and of Flaxseed, 1909-1911. Compiled under the direction of Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 18. (Circular 45, Bureau of Statistics.)
- Crop Reporter, Vol. 15, No. 2, February, 1913. Pp. 9-16. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

- The Regeneration of the Morgan Horse. (Circular 163, Bureau of Animal Industry.)
- Methods for the Eradication of Gid. (Circular 165, Bureau of Animal Industry.)
- The Extra Cost of Producing Clean Milk. (Circular 170, Bureau of Animal Industry.)
- Fermented Milks. (Circular 171, Bureau of Animal Industry.)
- A New Method of Determining Fat and Salt in Butter, Especially Adapted for Use in Creameries. (Circular 202, Bureau of Animal Industry.)
- National Reservations for the Protection of Wild Life. (Circular 87, Bureau of Biological Survey.)
- The White-Pine Weevil. (Circular 90, Bureau of Entomology.)
- The Asparagus Beetles. (Circular 102, Bureau of Entomology.)
- The Rose Slugs. (Circular 105, Bureau of Entomology.)
- Control of the Mediterranean Flour Moth by Hydrocyanic-Acid Gas Fumigation. (Circular 112, Bureau of Entomology.)
- The Larger Corn Stalk-Borer. (Circular 116, Bureau of Entomology.)
- The Occurrence of Bee Diseases in the United States. (Circular 138, Bureau of Entomology.)
- The Indian-Meal Moth and "Weevil-Cut" Peanuts. (Circular 142, Bureau of Entomology.)
- Insects Injurious to Mushrooms. (Circular 155, Bureau of Entomology.)
- Hydrocyanic-Acid Gas against Household Insects. (Circular 163, Bureau of Entomology.)
- Distribution of Seeds and Plants by the Department of Agriculture. (Circular 100, Bureau of Plant Industry.)

Sand-Clay and Earth Roads in the Middle West. (Circular 91, Office of Public Roads.)

Special Road Problems in the Southern States. (Circular 95, Office of Public Roads.)

The Wire-Basket Method for Determining the Manurial Requirements of Soils. (Circular 18, Bureau of Soils.)

FARMERS' BULLETIN.

NEW.

Canning Tomatoes at Home and in Club Work. I. Canned Tomatoes, Catchup, Chow-Chow, etc., By J. F. Breazeale, Assistant, Plant-Chemistry Laboratory, Bureau of Chemistry. II. Canning Tomatoes in Clubs and for Market. By O. H. Benson, Specialist in Charge of Club Work, Office of Farm Management, Bureau of Plant Industry. Pp. 36, figs. 12. (Farmers' bulletin 521.)

Tobacco Curing. By W. W. Garner, Physiologist in Charge of Tobacco and Plant-Nutrition Investigations, Bureau of Plant Industry, Pp. 24, figs. 4. (Farmers' Bulletin 523.) [Supersedes Farmers' Bulletin 60.]

SEPARATES.

NEW.

Drainage Investigations, 1910-11. By H. H. Barrows, Office Engineer, Drainage Investigations. Pp. 40-48. (O. E. S. Doc. 1503. From Annual Report of the Office of Experiment Stations, 1911.)

Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1911. By Butler B. Hare, Assistant in Agricultural Education. Pp. 231-275. (O. E. S. Doc. 1505. From Annual Report of the Office of Experiment Stations, 1911.)

Progress in Agricultural Education, 1911. By Dick J. Crosby, Specialist in Agricultural Education, Office of Experiment Stations. Pp. 277-341, pls. 6. (Document 1506. From Annual Reports of the Office of Experiment Stations.)

The Farmers' Institutes in the United States, 1911. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 343-388. (O. E. S. Doc. 1507. From Annual Reports of the Office of Experiment Stations, 1911.)

SEPARATES.

REPRINT.

The Principal Insect Enemies of the Peach. (Separate 386, Yearbook 1905.)

The Present Outlook for Irrigation Farming. (Separate 576, Yearbook 1911.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.

Monthly Weather Review, Vol. 40, No. 11, November, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1611-1764, maps 2, charts 8. (W. B. No. 496.) Price, 35 cents; \$4 a year.

National Monthly Weather Bulletin No. 1, for January, 1913, reporting temperature and rainfall with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

Snow and Ice Bulletins for February 4, 11, 18, 25. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,
Editor and Chief.

Approved:
JAMES WILSON,
Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1913.]

NOTE.—Copies of any of the publications listed herein, except publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications without sending the price of same, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

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The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Reconnaissance Soil Survey of Tattnall County, Georgia. By Hugh H. Bennett, Inspector in Charge Southern Division. Pp. 18, pls. 2, fig. 1. (From F. O. Soils, 1912.) Price, 5 cents.

BULLETINS.

NEW.

A Study of the Bacteria Which Survive Pasteurization. By S. Henry Ayers, Bacteriologist, and William T. Johnson, jr., Scientific Assistant, Dairy Division. Pp. 66, figs. 30. (Bulletin 161, Bureau of Animal Industry.) Price, 10 cents.

Classification of the Aleyrodidæ. Part 1. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and A. C. Baker, Expert. Pp. 93, pls. 34, figs. 11. (Technical Series No. 27, Part 1, Bureau of Entomology.) Price, 25 cents.

Papers on Deciduous Fruit Insects and Insecticides. I. Spraying Experiments Against the Grape Leafhopper in the Lake Erie Valley. By Fred Johnson, Agent and Expert. II. Life History of the Codling Moth and Its Control on Pears in California. By S. W. Foster, Agent and Expert. III. Vineyard Spraying Experiments Against the Rose-Chafer in the Lake Erie Valley. By Fred Johnson, Agent and Expert. IV. The California Peach Borer. By Dudley Moulton, Special Agent. V. Notes on the Peach and Plum Slug.

- By R. A. Cushman, Agent and Expert. VI. Notes on the Peach Bud Mite. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. VII. The Grape Scale. By James F. Zimmer, Entomological Assistant. Pp. 132, pls. 19, figs. 27. (Bulletin 97, Bureau of Entomology.) Price, 25 cents.
- Papers on Deciduous Fruit Insects and Insecticides. The Fruit-Tree Leaf-Roller. By John B. Gill, Entomological Assistant. Pp. iv+91-110, pls. 5. (Bulletin 116, Part 5, Bureau of Entomology.) Price, 10 cents.
- Lime-Magnesia Ratio as Influenced by Concentration. By P. L. Gile, Chemist. Pp. 24, pls. 4. (Bulletin 12, Porto Rico Experiment Station.) Price, 10 cents.
- Experiment Station Records, Vol. XXVIII, No. 2, February, 1913. E. W. Allen, Ph. D., Editor. Pp. 101-200. Price, 15 cents.
- Same, Vol. XXVIII, No. 3. Abstract Number. Pp. 201-300. Price, 15 cents.
- The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.
- Monthly Bulletin of the Library, January, 1913. Vol. 4. No. 1. Pp. 33. (Library.) Price, 5 cents.
- Contributions to the Study of Maize Deterioration. Biochemical and Toxicological Investigations of *Penicillium Puberulum* and *Penicillium Stoloniferum*. By Carl L. Alsberg and Otis F. Black, Chemical Biologists, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 48, pl. 1. (Bulletin 270, Bureau of Plant Industry.) Price, 10 cents.
- The Utilization of Waste Raisin Seeds. By Frank Rabak, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 36, figs. 3. (Bulletin 276, Bureau of Plant Industry.) Price, 5 cents.
- A Biochemical Study of the Curly-Top of Sugar Beets. By Herbert H. Bunzel, Chemical Biologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 28. (Bulletin 277, Bureau of Plant Industry.) Price, 5 cents.
- Descriptive Catalogue of the Road Models of the Office of Public Roads. (Revision of Office of Public Roads Bulletin No. 36.) Pp. 29, pls. 17, fig. 1. (Bulletin 47, Office of Public Roads.) Price, 15 cents.
- The Microscopic Determination of Soil-Forming Minerals. By W. J. McCaughey and William H. Fry, Scientists in Chemical and Physical Laboratories. Pp. 100, figs. 12. (Bulletin 91, Bureau of Soils.) Price, 10 cents.
- Wells and Subsoil Water. By W. J. McGee, Expert in Charge, Soil Water Investigations. Pp. 185. (Bulletin 92, Bureau of Soils.) Price, 20 cents.
- The Utilization of Acid and Basic Slags in the Manufacture of Fertilizers. By William H. Waggaman, Scientist in Fertilizer Investigations. Pp. 18, pl. 1. (Bulletin 95, Bureau of Soils.) Price, 5 cents.

REPRINTS.

- Dourine of Horses: Its Causes and Suppression. (Bulletin 142, Bureau of Animal Industry.) Price, 15 cents.
- Distribution and Migration of North American Shorebirds. (Bulletin 35, Revised, Bureau of Biological Survey.) Price, 15 cents.
- Papers on Deciduous-Fruit Insects and Insecticides. The Spring Canker-Worm. (Bulletin 68, Part 2, Bureau of Entomology.) Price, 5 cents.
- Papers on Deciduous-Fruit Insects and Insecticides. The Grape-Berry Moth. (Bulletin 116, Part 2, Bureau of Entomology.) Price, 15 cents.

CIRCULARS.

NEW

- The Utilization of Exhaust Steam for Heating Boiler Feed Water and Wash Water in Milk Plants, Creameries, and Dairies. By John T. Bowen, Technologist, Dairy Division. Pp. 13, figs. 3. (Circular 209, Bureau of Animal Industry.)
- Identification of Tanned Skins. By C. Frank Sammet, Assistant Chemist, Leather and Paper Laboratory. Pp. 2, pls. 9. (Circular 110, Bureau of Chemistry.)
- The Quantitative Separation and Determination of Subsidiary Dyes in the Permitted Food Colors. By Walter E. Mathewson, Assistant Chemist, New York Food and Drug Inspection Laboratory. Pp. 4. (Circular 113, Bureau of Chemistry.)
- The Identification of Small Amounts of Dyestuffs by Oxidation with Bromin. By Walter E. Mathewson, Assistant Chemist, New York Food and Drug Inspection Laboratory. Pp. 3. (Circular 114, Bureau of Chemistry.)
- The Fowl Tick. By F. C. Bishopp, Entomological Assistant. Pp. 14, figs. 5. (Circular 170, Bureau of Entomology.)
- Field Observations on Sugar-Cane Insects in the United States in 1912. By T. E. Holloway, Entomological Assistant. Pp. 8. (Circular 171, Bureau of Entomology.)
- Mechanical Properties of Woods Grown in the United States. Preliminary Summary of Tests on Small, Clear, Green Specimens of Forty-nine Species of Woods. Pp. 4. Table. (Circular 213, Forest Service.)
- Tests of Packing Boxes of Various Forms. By John A. Newlin, Engineer in Forest Products. Pp. 23, figs. 4. (Circular 214, Forest Service.)
- Effect of Forest Fires on Standing Hardwood Timber. By W. H. Long, Forest Pathologist, Bureau of Plant Industry. Pp. 6. (Circular 216, Forest Service.)
- Forage-Crop Experiments at the San Antonio Field Station. By S. H. Hastings, Superintendent, San Antonio Field Station. Pp. 27, pls. 4. (Circular 106, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] Two Types of Proliferation in Alfalfa. By R. A. Oakley and Samuel Garver. [II.] A New System of Cotton Culture. By O. F. Cook. [III.] Grasses for Canal Banks in Western South Dakota. By A. C. Dillman. Pp. 31, figs. 10. (Circular 115, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] The Fundamentals of Crop Improvement. By W. T. Swingle. [II.] The Work of the Scottsbluff Experiment Farm in 1912. By Fritz Knorr. [III.] The Himalaya Blackberry. By H. P. Gould. [IV.] The Artificial Curing of Alfalfa Hay. By H. B. McClure. Pp. 31, figs. 7. (Circular 116, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] The Bureau of Plant Industry, Its Functions and Efficiency. By B. T. Galloway. [II.] The Relation of Agricultural Extension Agencies to Farm Practices. By C. Beaman Smith and K. H. Atwood. Pp. 25, fig. 1. (Circular 117, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] The Economics of Crop Disposal. By C. S. Scofield. [II.] The Abortion of Fruiting Branches in Cotton. By O. F. Cook. [III.] Fruit Growing on the Truckee-Carson Project. By F. B. Headley and Vincent Fulkerson. [IV.] The Excretion of Cytase by *Penicillium Pinophilum*. By K. F. Kellerman. Pp. 31, figs. 9. (Circular 118, Bureau of Plant Industry.)
- Miscellaneous Papers. [I.] The Grafted Papaya as an Annual Fruit Tree. By David Fairchild and Edward Simmonds. [II.] The Work of the Belle Fourche Experiment Farm in 1912. By Beyer Aune. [III.] A Hand Grain Thrasher. By L. J. Briggs. [IV.] Arabian Alfalfa. By Roland McKee. Pp. 30, figs. 10. (Circular 119, Bureau of Plant Industry.)

Monthly List of Publications for February, 1913. Pp. 4. (Document 781, Division of Publications.)

Foreign Crops, February, 1913. By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 20. (Circular 46, Bureau of Statistics.)

Crop Reporter, Vol. 15, No. 3, March, 1913. Pp. 17-24. (Bureau of Statistics.)
The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETIN.

NEW.

Fifty Common Birds of Farm and Orchard. Prepared in the Bureau of Biological Survey. Henry W. Henshaw, Chief. Pp. 31, il. 50. (Farmers' Bulletin 513.) Price, 15 cents.

Experiment Station Work LXXIII. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24. figs. 3. (Farmers' Bulletin 522.)
Contents: Still for Alkali Water—Drainage Wet Soils—Marrow Cabbage—Beef Cattle in the South—Poultry Raising—Cost of Producing Milk—Milk-Powder Starters—Sheep-Branding Paints—Corporation among Fruit Growers.

Tile Drainage on the Farm. By A. G. Smith, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 27, figs. 15. (Farmers' Bulletin 524.)

Raising Guinea Pigs. By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 12, figs. 5. (Farmers' Bulletin 525.)

SEPARATES.

NEW.

Work and Expenditures of the Agricultural Experiment Stations for the year ended June 30, 1911. By E. W. Allen and J. L. Schulte. Pp. v+53-230, pls. 9. (O. E. S. Doc. 1504. From Annual Report of the Office of Experiment Stations, 1911.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.

Forecasting the Weather. By George S. Bliss, Section Director. Pp. 34, figs. 4. (Bulletin 42, Weather Bureau.) Price, 5 cents.

Monthly Weather Review, Vol. 40, No. 12, December, 1912. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1765-1923, maps 2, charts 8. (W. B. No. 497.) Price, 35 cents; \$4 a year.

National Monthly Weather Bulletin No. 2, for February, 1913, reporting temperature and rainfall with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

Snow and Ice Bulletins for March 5, 11, 18, 25. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

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Secretary of Agriculture.

JOS. A. ARNOLD,
Editor and Chief.

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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *April 30, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1913.]

NOTE.—Copies of any of the publications listed herein, **except publications of the Weather Bureau**, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Franklin County, Missouri. By E. S. Vanatta, of the United States Department of Agriculture, and H. G. Lewis, of the University of Missouri. Pp. 35, fig. 1, map. (From F. O. Soils, 1911.) Price 25 cents.

REPORTS.

NEW.

Annual Reports of the Department of Agriculture for the year ended June 30, 1912. Pp. 1149. (Report of the Secretary with Reports of Heads of the Several Branches of the Department.) Not available for distribution.

BULLETINS.

NEW.

Factors Influencing the Change in Flavor in Storage Butter. By L. A. Rogers, Bacteriologist, W. N. Berg, Chemist, C. R. Potteiger, Assistant Chemist, and B. J. Davis, Assistant. Pp. 69, fig. 1. (Bulletin 162, Bureau of Animal Industry.) Price, 10 cents.

The Life History of *Habronema Muscae* (Carter), A Parasite of the Horse Transmitted by the House Fly. By B. H. Ransom, Ph. D., Chief of the Zoological Division. Pp. 36, figs. 41. (Bulletin 163, Bureau of Animal Industry.) Price, 10 cents.

Chemical Changes Produced in Cows' Milk by Pasteurization. By Philip Rupp, M. D., Ph. D., Chemist, Dairy Division. Pp. 15, fig. 1. (Bulletin 166, Bureau of Animal Industry.) Price, 5 cents.

The Action of Arsenical Dips in Protecting Cattle from Infestation with Ticks. By H. W. Graybill, D. V. M., Assistant Zoologist, Zoological Division. Pp. 27. (Bulletin 167, Bureau of Animal Industry.) Price, 5 cents.

Graham Flour: A Study of the Physical and Chemical Differences between Graham Flour and Imitation Graham Flours. By J. A. LeClerc and B. R. Jacobs, Plant Chemistry Laboratory. Pp. 57. (Bulletin 164, Bureau of Chemistry.) Price, 10 cents.

Experiment Station Record, Vol. XXVIII, No. 4, March, 1913. E. W. Allen, Ph. D., Editor. Pp. 301-400. Price, 15 cents.

Same, Vol. XXVIII, No. 5, April, 1913. Pp. 401-500. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Bibliography of the Pulp and Paper Industries. By Henry E. Surface, in Charge Pulp and Paper. Pp. 48. (Bulletin 123, Forest Service?) Price, 10 cents.

Monthly Bulletin of the Library, February, 1913. Vol. 4, No. 2. Pp. 36-63. (Library.) Price, 5 cents.

Experiments in Wheat Breeding: Experimental Error in the Nursery and Variation in Nitrogen and Yield. By E. G. Montgomery, Experimental Agronomist of the Nebraska Agricultural Experiment Station and Collaborator of the Office of Cereal Investigations, Bureau of Plant Industry. Pp. 61, pls. 4, figs. 22. (Bulletin 269, Bureau of Plant Industry.) Price, 15 cents.

Wild Wheat in Palestine. By O. F. Cook, Bionomist in Charge of Crop Acclimatization and Adaptation Investigations. Pp. 56, pls. 15, figs. 11. (Bulletin 274, Bureau of Plant Industry.) Price, 15 cents.

Floral Abnormalities in Maize. By James H. Kempton, Assistant in Crop Acclimatization and Adaptation Investigations. Pp. 18, pls. 2, figs. 2. (Bulletin 278, Bureau of Plant Industry.) Price, 5 cents.

The Effect of Artificial Shading on Plant Growth in Louisiana. By H. L. Shantz, Physiologist, Alkali and Drought Resistant Plant Investigations. Pp. 31, pls. 6, figs. 11. (Bulletin 279, Bureau of Plant Industry.) Price, 10 cents.

The "Rough-Bark" Disease of the Yellow Newtown Apple. By John W. Roberts, Assistant Pathologist, Fruit-Disease Investigations. Pp. 16, pls. 3, figs. 2. (Bulletin 280, Bureau of Plant Industry.) Price, 5 cents.

Cold-Storage Business Features. Reports of Warehouses. By George K. Holmes, Chief of Division of Production and Distribution. Pp. 86. (Bulletin 93, Bureau of Statistics.) Price, 10 cents.

Cold Storage and Prices. By George K. Holmes, Chief of Division of Production and Distribution. Pp. 116. (Bulletin 101, Bureau of Statistics.) Price, 15 cents. (The Department's Supply of this publication is exhausted.)

CIRCULARS.

NEW

Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 22. (Circular 21, Seventh Revision, Office of the Secretary.)

The Adulteration and Misbranding of the Seeds of Kentucky Bluegrass, Redtop, and Orchard Grass. Pp. 6. (Circular 43, Office of the Secretary.)

Rule 3, Revision 2. To Prevent the Spread of Scabies in Sheep. Pp. 3. (B. A. I. Order 195.)

A Comparison of the Acid Test and the Rennet Test for Determining the Condition of Milk for the Cheddar Type of Cheese. By E. G. Hastings, Bacteriologist, Wisconsin Experiment Station, and Alice C. Evans, Bacteriologist, Dairy Division, Bureau of Animal Industry. Pp. 6. (Circular 210, Bureau of Animal Industry.)

A Humidity Regulator. By William Mansfield Clark, Chemist, Dairy Division. Pp. 6, figs. 2. (Circular 211, Bureau of Animal Industry.)

An All-Metal Poultry-Cooling Rack. By M. E. Pennington and H. C. Pierce, Food Research Laboratory. Pp. 8, figs. 6. (Circular 115, Bureau of Chemistry.)

Spraying for White Flies in Florida. By W. W. Yothers, Entomological Assistant. Pp. 8. (Circular 168, Bureau of Entomology.)

The Chinese Wood-Oil Tree. By David Fairchild, Agricultural Explorer in Charge of Foreign Seed and Plant Introduction. Pp. 7, pls. 3. (Circular 108, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] Testing Cultures of Nodule-Forming Bacteria. By K. F. Kellerman. [II.] The Work of the San Antonio Experiment Farm in 1912. By S. H. Hastings. [III.] Inheritance of Waxy Endosperm in Hybrids with Sweet Corn. By G. N. Collins and J. H. Kempton. [IV.] Leaf-Cut, or Tomosis, a Disorder of Cotton Seedlings. By O. F. Cook. Pp. 34, figs. 10. (Circular 120, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] The Culture of Durango Cotton in the Imperial Valley. By Argyle McLachlan. [II.] The Control of the Sugar-Beet Leaf-Spot. By V. W. Pool and M. B. McKay. [III.] The Work of the Huntley Experiment Farm in 1912. By Dan Hansen. [IV.] Methods of Securing Self-Pollination in Cotton. By R. M. Meade. Pp. 30, figs. 7. (Circular 121, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] Directions for Blueberry Culture. By Frederick V. Coville. [II.] The Work of the Truckee-Carson Experiment Farm in 1912. By F. B. Headley. [III.] Feterita, a New Variety of Sorghum. By H. N. Vinall and Carleton R. Ball. Pp. 32, figs. 3. (Circular 122, Bureau of Plant Industry.)

Miscellaneous Papers. [I.] Factors Affecting the Production of Long-Staple Cotton. By O. F. Cook. [II.] Behavior of Seed Cotton in Farm Storage. By Charles J. Brand and W. A. Sherman. [III.] Egyptian Cotton Culture in the South West. By Carl S. Scofield. Pp. 28, figs. 5. (Circular 123, Bureau of Plant Industry.)

Monthly List of Publications for March, 1913. Pp. 4. (Document 783, Division of Publications.)

Alunite and Kelp as Potash Fertilizers. By J. J. Skinner and A. M. Jackson, Scientists in Soil Fertility Investigations. Pp. 5. (Circular 76, Bureau of Soils.)

Soils of the Sutter Basin: A Revision in the Survey of Certain Soils in the Marysville Area, California. Pp. 10, fig. 1. (Circular 79, Bureau of Soils.)

Crop Reporter, Vol. 15, No. 4, April, 1913. Pp. 25-32. (Bureau of Statistics.) The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Some Results of Cattle-tick Eradication. (Circular 196, Bureau of Animal Industry.)

Directions for Constructing Vats and Dipping Cattle to Destroy Ticks. (Circular 207, Bureau of Animal Industry.)

The Organization of Girls' Poultry Clubs. (Circular 208, Bureau of Animal Industry.)

The Alaska Game Law and Regulations of the Department of Agriculture, 1908. (Circular 66, Bureau of Biological Survey.)

Methods of Legume Inoculation. (Circular 63, Bureau of Plant Industry.)

FARMERS' BULLETIN.

NEW.

Mutton and Its Value in the Diet. By C. F. Langworthy, Ph. D., Chief of Nutrition Investigations, Office of Experiment Stations, and Caroline L. Hunt, A. B., Expert in Nutrition, Office of Experiment Stations. Pp. 32, figs. 2. (Farmers' Bulletin 526.)

Experiment Station Work LXXIV. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, figs. 7. (Farmers' Bulletin 527.)

Contents: Peonies—Spraying Potatoes—Marketing Wool—Retail Buying of Beef—Tobacco Dips for Sheep Scab—Sewage Disposal for Rural Homes.

Hints to Poultry Raisers. By Harry M. Lamon, Senior Animal Husbandman in Poultry Investigations, Animal Husbandry Division, Bureau of Animal Industry. Pp. 12, figs. 2. (Farmers' Bulletin 528.)

Good Seed Potatoes and How to Produce Them. By William Stuart, Horticulturist. Office of Horticultural Investigations and Arlington Experimental Farm, Bureau of Plant Industry. Pp. 16, figs. 8. (Farmers' Bulletin 533.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Report of the Chief of the Weather Bureau, 1911-1912. Pp. 272.

Bulletin of the Mount Weather Observatory, vol. 5, pt. 4. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 219-293, figs. 24. (W. B. No. 501.) Price, 25 cents.

Monthly Weather Review, Vol. 41, No. 1. January, 1913. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1-169, maps 2, charts 8. (W. B. No. 500.) Price, 35 cents; \$4 a year.

National Monthly Weather Bulletin No. 3 for March, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

National Weekly Weather Bulletin, Nos. 4, 5, 6, for April, 1913. Price, 25 cents a year.

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JOS. A. ARNOLD,
Editor and Chief.

Approved:

D. L. HOUSTON,
Secretary of Agriculture.



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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *May 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1913.]

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The Superintendent of Documents is not connected with the Department of Agriculture, and all remittances for publications should be sent directly to Superintendent of Documents, Government Printing Office, Washington, D. C., by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of Marshall County, Alabama. By C. S. Waldrop, of the United States Department of Agriculture, and N. Eric Bell, of the Alabama Department of Agriculture and Industries. Pp. 32, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Reno County, Kansas. By William T. Carter, jr., F. V. Emerson, A. E. Kocher, and Allen L. Higgins, of the United States Department of Agriculture, and Charles S. Myszka and H. C. Lint, of the Kansas State Agricultural College. Pp. 72, figs. 2, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Shawnee County, Kansas. By W. C. Byers, of the United States Department of Agriculture, and R. I. Throckmorton, of the Kansas State Agricultural College. Pp. 41, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Reconnaissance Survey of Southwestern Washington. By A. W. Mangum and Party. Pp. 136, pls. 2, 2 figs. 5, maps 4. (From F. O. Soils, 1911.) Price, 75 cents.

REPORTS.

Annual Report of the Hawaii Agricultural Experiment Station for 1912. Pp. 91, pls. 5, figs. 2. (Document 1491, Office of Experiment Stations.) Price, 10 cents.

BULLETINS.

The Care of the Farm Egg. By Harry M. Lamon and Charles L. Opperman, Junior Animal Husbandmen, Animal Husbandry Division. Pp. 53, pls. 6, figs. 8. (Bulletin 160, Bureau of Animal Industry.) Price, 15 cents.

- Distribution and Migration of North American Herons and Their Allies. By Wells W. Cooke, Assistant, Biological Survey. Pp. 70, figs. 21. (Bulletin 45, Bureau of Biological Survey.) Price, 10 cents.
- The Composition of Different Varieties of Red Peppers. By L. M. Tolman and L. C. Mitchell, Food Inspection Laboratory. Pp. 32. (Bulletin 163, Bureau of Chemistry.) Price, 5 cents.
- Leather Investigations: The Composition of Some Sole Leathers. By F. P. Veitch, Chief, Leather and Paper Laboratory, and J. S. Rogers, Assistant Chemist. Pp. 20. (Bulletin 165, Bureau of Chemistry.) Price, 5 cents.
- The Elimination and Toxicity of Caffein in Nephrectomized Rabbits. By William Salant, Chief, Pharmacological Laboratory, Division of Drugs, and J. B. Rieger, Assistant Chemist. Pp. 31. (Bulletin 166, Bureau of Chemistry.) Price, 5 cents.
- The Hop Aphis in the Pacific Region. By William B. Parker, M. S., Entomological Assistant. Pp. 43, pls. 10, figs. 8. (Bulletin 111, Bureau of Entomology.) Price, 15 cents.
- The Red Spider on Hops in the Sacramento Valley of California. By William B. Parker, M. S., Entomological Assistant. Pp. 41, pls. 6, figs. 9. (Bulletin 117, Bureau of Entomology.) Price, 15 cents.
- Papers on Insects Affecting Vegetable and Truck Crops. The Spotted Beet Webworm. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 1-11, pls. 4, figs. 3. (Bulletin 127, Part 1.) Price, 5 cents.
- Papers on Insects Affecting Vegetable and Truck Crops. The Striped Beet Caterpillar. By H. O. Marsh, Entomological Assistant. Pp. iii+13-18, pl. 1, figs. 2. (Bulletin 127, Part 2, Bureau of Entomology.) Price, 5 cents.
- Educational Contests in Agriculture and Home Economics. For use in Farmers' Institute and Agricultural Extension Work. By George L. Christie, B. S. A., Superintendent of Agricultural Extension, Purdue University, La Fayette, Ind. Pp. 47. (Bulletin 255, Office of Experiment Stations.) Price, 5 cents.
- Experiment Station Record, Vol. XXVIII, No. 6, Abstract Number, 1913. E. W. Allen, Ph. D., Editor. Pp. 501-600. Price, 15 cents.
- Same*, Vol. XXVII, Index Number. Pp. 901-1004. Price, 15 cents.
- The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.
- Experiments in the Preservative Treatment of Red-Oak and Hard-Maple Cross-ties. By Francis M. Bond, In Charge Wood Preservation. Pp. 92, pls. 9, figs. 26. (Bulletin 126, Forest Service.) Price, 20 cents.
- Monthly Bulletin of the Library, March, 1913. Vol. 4, No. 3. Pp. 66-91. (Library.) Price, 5 cents.
- The Muscadine Grapes. By George C. Husmann, Pomologist in Charge of Viti-cultural Investigations, and Charles Dearing, Scientific Assistant, Office of Field Investigations in Pomology. Pp. 64, pls. 11, figs. 26. (Bulletin 273, Bureau of Plant Industry.) Price, 25 cents.
- Apples and Peaches in the Ozark Region. By H. P. Gould, Pomologist in Charge, and W. F. Fletcher, Scientific Assistant, Fruit District Investigations, Office of Field Investigations in Pomology. Pp. 95, pls. 6, figs. 6. (Bulletin 275, Bureau of Plant Industry.) Price, 15 cents.
- A Dry Rot of Sweet Potatoes Caused by *Diaporthe batatas*. By L. L. Harter, Pathologist, and Ethel C. Field, Scientific Assistant, Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 38, pls. 4, figs. 4. (Bulletin 281, Bureau of Plant Industry.) Price, 10 cents.

Repair and Maintenance of Highways. By Laurence I. Hewes, Ph. D., Chief of Economics and Maintenance, Office of Public Roads. Pp. 71, pls. 3, figs. 13. (Bulletin 48, Office of Public Roads.) Price, 15 cents.

The Occurrence of Potassium Salts in the Salines of the United States. By J. W. Turrentine, with Analyses by W. H. Ross, R. F. Gardner, A. R. Merz, and J. A. Cullen. Pp. 96, figs. 3. (Bulletin 94, Bureau of Soils.) Price, 15 cents.

CIRCULARS.

Rules and Regulations for Carrying Out the Plant Quarantine Act. Pp. 16. [Supersedes Circular 41, Office of the Secretary.] (Circular 44, Office of the Secretary.)

Amendment 5 to Rule 2, Revision 3. To Prevent the Spread of Scabies in Cattle. Releasing from Quarantine a Portion of the State of Texas. Pp. 1. (Amendment 5 to B. A. I. Order 167.)

The Detection of Phytosterol in Mixtures of Animal and Vegetable Fats. By Robert H. Kerr, Biochemist, Biochemic Division. Pp. 4. (Circular 212, Bureau of Animal Industry.)

The Red Spider on Cotton. By E. A. McGregor, Entomological Assistant. Pp. 22, figs. 12. (Circular 172, Bureau of Entomology.)

Arsenate of Lead as an Insecticide Against the Tobacco Hornworms. By A. C. Morgan and D. C. Parman, Entomological Assistants. Pp. 10. (Circular 173, Bureau of Entomology.)

Pith-Ray Flecks in Wood. By H. P. Brown, Xylotomist. Pp. 15, pls. 6. (Circular 215, Forest Service.)

Miscellaneous Papers: [A.] Agriculture on the Yuma Reclamation Project. By Carl S. Scofield. [B.] Effects of Cross-Pollination on the Size of Seed in Maize. By G. N. Collins and J. H. Kempton. [C.] Experiments on the Decay of Florida Oranges. By J. G. Grossenbacher. [D.] The Wild Prototype of the Cowpea. By Charles V. Piper. Pp. 32, figs. 3. (Circular 124, Bureau of Plant Industry.)

Sudan Grass, A New Drought-Resistant Hay Plant. By C. V. Piper, Agrostologist in Charge of Forage-Crop Investigations. Pp. 20, figs. 6. (Circular 125, Bureau of Plant Industry.)

Miscellaneous Papers. [A.] Fungous Diseases Liable to be Disseminated in Shipments of Sugar Cane. By Ethel C. Field. [B.] The Work of the Yuma Experiment Farm in 1912. By W. A. Peterson. [C.] Directions for Collecting Plants. By P. L. Ricker. Pp. 35, figs. 16. (Circular 126, Bureau of Plant Industry.) Price, 10 cents.

Miscellaneous Papers. [A.] The Work of the Delta Experiment Farm in 1912. By John P. Irish, Jr. [B.] Silver Scurf, a Disease of the Potato. By I. E. Melhus. [C.] The Dasheen, a Root Crop for the Southern States. By Robert A. Young. Pp. 36, figs. 7. (Circular 127, Bureau of Plant Industry.)

Miscellaneous Papers. [A.] Some Profitable and Unprofitable Farms in New Hampshire. By Fred E. Robertson and Lawrence G. Dodge. [B.] The Strength of Textile Plant Fibers. By Lyster H. Dewey and Marie Goodloe. Pp. 21, figs. 3. (Circular 128, Bureau of Plant Industry.)

Monthly List of Publications for April, 1913. Pp. 4. (Document 786, Division of Publications.)

Foreign Crops, March-April, 1913. By Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 27. (Circular 47, Bureau of Statistics.)

Crop Reporter, Vol. 15, No. 5, May, 1913. Pp. 33-40. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

- Vetch Growing in the South Atlantic States. By A. G. Smith, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 21, figs. 6. (Farmers' Bulletin 529.)
- Important Poultry Diseases. By D. E. Salmon, D. V. M. Pp. 36. (Farmers' Bulletin 530.)
- Larkspur, or "Poison Weed." By C. Dwight Marsh and A. B. Clawson, Physiologists, and Hadleigh Marsh, Laboratory Assistant. Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations, Bureau of Plant Industry. Pp. 15, figs. 5. (Farmers' Bulletin 531.)
- Experiment Station Work LXXV. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, figs. 4. (Farmers' Bulletin 532.)
Contents: Garden Sweet Peas—Winter-Flowering Sweet Peas—Southern Bur Clover—Type of Sheep for Southwest—Combating Flies.
- Durum Wheat. By Cecil Salmon, Plant Physiologist, and J. Allen Clark, Scientific Assistant, Office of Cereal Investigations, Bureau of Plant Industry. (Farmers' Bulletin 534.)
- Stock Poisoning Due to Scarcity of Food. By C. Dwight Marsh, Physiologist, Drug-Plant, Poisonous-Plant, Physiological, and Fermentation Investigations, Bureau of Plant Industry. Pp. 4. (Farmers' Bulletin 536.)
- How to Grow an Acre of Corn. By C. P. Hartley, Physiologist in Charge of Corn Investigations. Pp. 21, figs. 12. (Farmers' Bulletin 537.)
This bulletin gives some fundamental requirements for large and profitable corn yields on one acre for the general guidance of boys either as individuals or members of corn clubs.
- Sites, Soils, and Varities for Citrus Groves in the Gulf States. By P. H. Rolfs, Director of the Agricultural Experiment Station of Florida. Pp. 15. (Farmers' Bulletin 538.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

- Hurricanes of the West Indies. By Oliver L. Fassig, Professor of Meteorology, United States Weather Bureau. Pp. 28, pls. 25. (Bulletin X, Weather Bureau.) Price \$1.50.
- Bulletin of the Mount Weather Observatory, vol. 5, pt. 5. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 295-364, figs. 11. (W. B. No. 503.) Price, 25 cents.
- Monthly Weather Review, vol. 41, No. 2, February, 1913. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 171-325, maps 2, charts 8. (W. B. No. 502.) Price, 35 cents; \$4 a year.
- National Weekly Weather Bulletin Nos. 7, 8, 9, 10, for May, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief.

Approved:
D. F. HOUSTON,
Secretary of Agriculture.



This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *June 30, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1913.]

NOTE.—Copies of any of the publications listed herein, **except publications of the Weather Bureau**, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy.

The Superintendent of Documents is not connected with the Department of Agriculture, and all remittances for publications should be sent directly to Superintendent of Documents, Government Printing Office, Washington, D. C., by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk. Postage stamps, foreign money, uncertified checks, defaced or smooth coins will positively not be accepted. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Reconnaissance Survey of Western Nebraska. By T. D. Rice and Party. Pp. 121, pl. 1, figs. 2, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of the Medford Area, Oregon. By A. T. Strahorn, L. C. Holmes, E. C. Eckmann, J. W. Nelson, and Lawrence A. Kolbe. Pp. 74, pls. 5, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Fond Du Lac County, Wisconsin. By W. J. Geib, Guy Conrey, and Arthur E. Taylor, of the U. S. Department of Agriculture, and Leroy Schoenmann and F. L. Musback, of the Wisconsin Geological and Natural History Survey. Pp. 43, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

REPORTS.

NEW.

Yearbook of the U. S. Department of Agriculture, 1912. Pp. 784, pls. 70, figs. 19. Price, cloth, \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 259 pages; 24 miscellaneous articles including a wide range of subjects, each closely related to some line of work of the department, 279 pages; an appendix, 172 pages; and index, 34 pages. The appendix contains a short article on the publications of the Department and their distribution; a review of weather conditions for the year; and lists of agri-

cultural colleges, experiment stations, and of officials in charge of agricultural interests in the several States. The closing 194 pages are occupied by statistical tables covering production, prices, exports, and imports of the principal crops and farm animals.

Only 6 out of each 100 copies of the Yearbook are assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Other applicants are therefore respectfully referred to their Representatives or Delegates in Congress, to whom the other 94 per cent are allotted for distribution, or to the Superintendent of Documents, Government Printing Office, Washington, D. C., who has it for sale at \$1 per copy.

Twenty-Eighth Annual Report of the Bureau of Animal Industry for the year 1911. Pp. 356, pls. 33, figs. 3. Price, 60 cents.

Influence of Vegetables Greened with Copper Salts on the Nutrition and Health of Man.—Report of the Board of Consulting Scientific Experts.—Action of Coppered Vegetables on the Health and Nutrition of Man. By Alonzo E. Taylor.—Investigations on the Effects of Foods Containing Copper Compounds on the General Health and Metabolism of Man. By John H. Long.—Absorption and Distribution of Copper When Coppered Vegetables Are Eaten. By Russell H. Chittenden.—Histological Examination of the Tissues of Dogs and Monkeys. By Theobald Smith. Pp. 461, charts 11. (Report 97, Office of the Secretary.) Price, 40 cents.

(The Department's Supply of this publication is exhausted.)

BULLETINS.

NEW.

The Manufacture of Cheese of the Cheddar Type from Pasteurized Milk. By J. L. Sammis, Ph. D., Associate Professor of Dairy Husbandry, College of Agriculture, University of Wisconsin, and A. T. Bruhn, Expert Cheese Maker, Dairy Division, Bureau of Animal Industry. Pp. 95, pls. 6, figs. 6. (Bulletin 165, Bureau of Animal Industry.) Price, 15 cents.

The Argentine Ant. By Wilmon Newell, M. S., and T. C. Barber, B. S. A. Pp. 98, pls. 13, figs. 13. (Bulletin 122, Bureau of Entomology.) Price, 25 cents.

Irrigation Resources of California and their Utilization. By Frank Adams, Irrigation Manager, in Charge of Work in California. Pp. 95, pls. 17. (Bulletin 254, Office of Experiment Stations.) Price, 75 cents.

Experiment Station Record, Vol. XXVIII, No. 7, May, 1913. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price, 15 cents.

Same, Vol. XXVIII, No. 8, June, 1913. Pp. 701-800. Price, 15 cents.

Same, Vol. XXVIII, No. 9, Abstract Number. Pp. 801-900. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Monthly Bulletin of the Library, April, 1913. Vol. 4, No. 4. Pp. 94-126. (Library.) Price, 5 cents.

Title Page, Contents, and Author Index to Monthly Bulletin of the Library, Vol. 3, 1912. Pp. iv+391-497. (Library.) Price, 5 cents.

Seeds and Plants Imported During the Period from January 1 to March 31, 1912; Inventory No. 30; Nos. 32369 to 33278. Pp. 99. (Bulletin 282, Bureau of Plant Industry.) Price, 10 cents.

Cereal Experiments in the Texas Panhandle. By John F. Ross, Farm Superintendent, and A. H. Leidigh, Formerly Scientific Assistant, Office of Cereal Investigations. Pp. 79, figs. 13. (Bulletin 283, Bureau of Plant Industry.) Price, 10 cents.

CIRCULARS.

NEW.

Regulations Governing the Preparation, Sale, Barter, Exchange, Shipment, and Importation of Viruses, Serums, Toxins, and Analogous Products Intended for Use in the Treatment of Domestic Animals. Pp. 7. (B. A. I. Order 196.)

The Government Inspection and Quarantine Service Relating to the Importation and Exportation of Live Stock. By Richard W. Hickman, V. M. D., Chief of the Quarantine Division. Pp. 17, pls. 11. (Circular 213, Bureau of Animal Industry.) Price, 10 cents.

The Control of Bulk Milk in Stores. By Ernest Kelly, In Charge of Market Milk Investigations, Dairy Division. Pp. 10. (Circular 217, Bureau of Animal Industry.)

Proposed Regulations for the Protection of Migratory Birds. Pp. 6. (Circular 92, Bureau of Biological Survey.)

Explanations of the Proposed Regulations for the Protection of Migratory Birds. Pp. 5. (Circular 93, Bureau of Biological Survey.)

Miscellaneous Papers. [A.] The Present Status of Date Culture in the Southwestern States. By Walter T. Swingle. [B.] The Present Status of the White-Pine Blister Rust. By Perley Spaulding. [C.] The Work of the Umatilla Experiment Farm in 1912. By R. W. Allen. Pp. 32, figs. 9. (Circular 129, Bureau of Plant Industry.)

Miscellaneous Papers. [A.] Cotton Problems in Louisiana. By O. F. Cook. [B.] The Use of Congo Red in Culture Media. By Karl F. Kellerman. [C.] A Simple and Economical Method of Burning Lime. By J. H. Arnold and John E. Nichols. Pp. 23, figs. 3. (Circular 130, Bureau of Plant Industry.)

Monthly List of Publications for May, 1913. Pp. 4. (Document 788, Division of Publications.)

Progress Reports of Experiments in Dust Prevention and Road Preservation, 1912. Pp. 51. (Circular 99, Office of Public Roads.)

Crop Reporter, Vol. 15, No. 6, June, 1913. Pp. 41-48. (Bureau of Statistics.) The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Standards of Purity for Food Products. (Circular 19, Office of the Secretary.)

How to Build a Stave Silo. (Circular 136, Bureau of Animal Industry.)

FARMERS' BULLETIN.

NEW.

Sugar and Its Value as Food. By Mary Hinman Abel. Prepared under the supervision of the Nutrition Investigations, Office of Experiment Stations. Pp. 32. [Supersedes Farmers' Bulletin 93.] (Farmers' Bulletin 535.)

Propagation of Citrus Trees in the Gulf States. By P. H. Rolfs, Director of the Agricultural Experiment Station of Florida. Pp. 16, figs. 9. (Farmers' Bulletin 539.)

Farm Butter Making. By J. R. Keithley, Junior Dairyman, Dairy Division, Bureau of Animal Industry. Pp. 28, figs. 15. [Supersedes Farmers' Bulletin 241.] (Farmers' Bulletin 541.)

Potato-Tuber Diseases. By W. A. Orton, Pathologist in Charge of Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 16, figs. 16. (Farmers' Bulletin 544.)

How to Manage a Corn Crop in Kentucky and West Virginia. By J. H. Arnold, Agriculturist, Office of Farm Management. Pp. 7. (Farmers' Bulletin 546.)

SEPARATES.

NEW.

Casein Media Adapted to the Bacterial Examination of Milk. By S. Henry Ayers, Bacteriologist, Dairy Division. Pp. 225-235. (From Annual Report of the Bureau of Animal Industry for 1911.)

The Slaughter and Consumption of Food Animals in the United States for the year 1909. By John Roberts. Pp. 253-267. (From Annual Report Bureau of Animal Industry, 1911.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

The Rivers and Floods of the Sacramento and San Joaquin Watersheds. By Nathaniel R. Taylor, Local Forecaster. Pp. 92, figs. 48. (Bulletin 43, Weather Bureau.) Price, 20 cents.

The Climate of San Francisco. By Alexander G. McAdie, Professor of Meteorology. Pp. 33, figs. 14. (Bulletin 44, Weather Bureau.) Price, 5 cents.

Monthly Weather Review, Vol. 41, No. 3, March, 1913. Prepared under the direction of Henry E. Williams, Acting Chief U. S. Weather Bureau. Pp. 327-502, maps 2, charts 8. (W. B. No. 504.) Price, 35 cents; \$4 a year.

Same, Vol. 41, No. 4, April, 1913. Pp. 503-661, maps 2, charts 8. (W. B. No. 506.)

National Weekly Weather Bulletin Nos. 11, 12, 13, 14, 15, for June, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. [Weekly, April-September, Monthly, remainder of year.] Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs, which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

JOS. A. ARNOLD,
Editor and Chief.

Approved.
D. F. HOUSTON,
Secretary of Agriculture.



P96M

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *July 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1913.]

NOTE.—Copies of any of the publications listed herein, except publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants may obtain copies from the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of all documents, unless otherwise noted, is 5 cents per copy. To facilitate the payment of the cost of documents, the Superintendent of Documents will hereafter accept coupons issued by him instead of cash. Coupons of the value of 5 cents each are sold in sets of 20 for \$1.

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

- Soil Survey of Chilton County, Alabama. By L. Cantrell and W. E. Wilkinson. Pp. 36, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.
- Soil Survey of Elmore County, Alabama. By R. A. Winston and A. C. McGehee. Pp. 47, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.
- Soil Survey of Fairfield County, South Carolina. By M. Earl Carr, F. S. Welsh, G. A. Crabb, Ridsden T. Allen, and W. C. Byers. Pp. 37, pls. 2, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

REPORTS.

- Annual Report of the Porto Rico Agricultural Experiment Station for 1912. Pp. 44, pls. 5, Frontispiece. (Document 1520, Office of Experiment Stations.) Price, 10 cents.

BULLETINS.

- Experiment Station Record, Vol. XXIX, No. 1, July, 1913. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

- General Index to Experiment Station Record, Vols. XIII to XXV, 1901-1911. By M. D. Moore and William Henry. Pp. 1159. (Document 1498. Office of Experiment Stations.) Price, \$1.

[The Department's supply of this publication is exhausted.]

- The Grinding of Spruce for Mechanical Pulp. By J. H. Thickens, Chemical Engineer in Forest Products. Pp. 54, pls. 7, figs. 19. (Bul. 127, Forest Service.) Price, 15 cents.

- Monthly Bulletin of the Library, May, 1913. Vol. 4, No. 5. Pp. 128-160. (Library.) Price, 5 cents.

- Index to the Yearbooks of the United States Department of Agriculture, 1906-1910. By Charles H. Greathouse, Assistant Editor in Charge of Indexing, Division of Publications. Pp. 146. (Bulletin 10, Division of Publications.) Price, 15 cents.

- Soils of the United States. (Edition, 1913.) By Curtis F. Marbut, Hugh H. Bennett, J. E. Lapham, and M. H. Lapham. Pp. 791, pls. 2, figs. 13. [Revision of Soils, Bulletins 55 and 78.] (Bulletin 96, Bureau of Soils.) Price, \$1.

[The Department's supply of this bulletin is exhausted.]

CIRCULARS.

- The Adulteration and Misbranding of the Seed of Hairy Vetch. Pp. 6. (Circular 45, Office of the Secretary.)
- Miscellaneous Papers. [A.] Cultural Characters of the Chestnut-Blight Fungus and Its Near Relatives. By C. L. Shear and Neil E. Stevens. [B.] Measuring Hay in Ricks or Stacks. By H. B. McClure, W. J. Spillman, and J. W. Froley. [C.] Cellulose as a Source of Energy for Nitrogen Fixation. By I. G. McBeth. Pp. 34, figs. 3. (Circular 131, Bureau of Plant Industry.)
- Miscellaneous Papers. [A.] The Farmer's Income. By W. J. Spillman. [B.] Cotton Farming in the Southwest. By O. F. Cook. [C.] Mosaic Coherence of Characters in Seeds of Maize. By G. N. Collins. Pp. 21. (Circular 132, Bureau of Plant Industry.)
- The Monthly Crop Reporter was discontinued with No. 6 of Volume 15.

FARMERS' BULLETIN.

- The Stable Fly. By F. C. Bishopp, Entomological Assistant, Bureau of Entomology. Pp. 28, figs. 10. (Farmers' Bulletin 540.)
- Culture, Fertilization, and Frost Protection of Citrus Groves in the Gulf States. By P. H. Rolfs, Director of the Agricultural Experiment Station of Florida. Pp. 20, figs. 3. (Farmers' Bulletin 542.)
- Common White Grubs. By John J. Davis, Scientific Assistant, Bureau of Entomology. Pp. 20, figs. 12. (Farmers' Bulletin 543.)
- Controlling Canada Thistles. By H. R. Cox, Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 14, figs. 6. (Farmers' Bulletin 545.)
- The Yellow-Fever Mosquito. By L. C. Howard, M. D., Ph. D., Chief of the Bureau of Entomology. Pp. 16, figs. 6. (Farmers' Bulletin 547.)
- Storing and Marketing Sweet Potatoes. By H. C. Thompson, Assistant Horticulturist, Bureau of Plant Industry. Pp. 15, figs. 9. [Supersedes Farmers' Bulletin 520.] (Farmers' Bulletin 548.)
- Experiment Station Work LXXVI. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, figs. 15. (Far. Bul. 549.) Contents: The Farm Water Supply—Storage of Potatoes—The Meadow Lark—Egg Production—Sprouting Oats for Poultry—Carbolic Acid for Contagious Abortion—Cooling Cream Without Ice.
- Crimson Clover: Growing the Crop. By J. M. Westgate, Agronomist in Charge of Clover Investigations, Office of Forage-Crop Investigations, Bureau of Plant Industry. Pp. 15, figs. 5. (Farmers' Bulletin 550.)

SEPARATES.

- Our Meadow Larks in Relation to Agriculture. By F. E. L. Beal, Assistant in Charge of Economic Ornithology, Biological Survey. Pp. 279–284. (Sep. 590, Y. B. 1912.)
- Some Results Obtained in Studying Ripening Bananas with the Respiration Calorimeter. By C. F. Langworthy and R. D. Milner, Nutrition Investigations, Office of Experiment Stations. Pp. 293–308. (Separate 592, Yearbook 1912.)
- Some Useful Weather Proverbs. By W. J. Humphreys, Ph. D., Professor of Meteorological Physics, United States Weather Bureau. Pp. 374–382. (Sep. 599, Y. B. 1912.)
- Relation of Birds to Grain Aphides. By W. L. McAtee, Assistant Biologist, Biological Survey. Pp. 397–404, fig. 3. (Separate 601, Yearbook 1912.)
- The Settlement of Irrigated Lands. By Carl S. Scofield, Agriculturist in Charge, Western Irrigation Agriculture, Bureau of Plant Industry. Pp. 483–494. (Sep. 608, Y. B. 1912.)
- Raisins, Figs, and other Dried Fruits and their Use. By C. F. Langworthy, Chief of Nutrition Investigations, Office of Expt. Stations. Pp. 505–520. (Sep. 610, Y. B. 1912.)
- Possible Sources of Potash in the United States. By Frank K. Cameron, Bureau of Soils. Pp. 523–536. (Separate 611, Yearbook 1912.)
- The Commercial Weather Map of the United States Weather Bureau. By Henry L. Weiskell, Chief of Division, U. S. Weather Bureau. Pp. 537–539. (Sep. 612, Y. B. 1912.)
- A Directory for Farmers. Pp. 541–545. (Separate 613, Yearbook 1912.)
- Biochemic Reactions and the Bacterial Count of Milk. By H. C. Campbell, V. M. D., M. D., Expert in Milk Hygiene, Pathological Division. Pp. iii + 195–224, pl. 1, fig. 1. (From Annual Report of the Bureau of Animal Industry for 1911.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weekly Weather Bulletin Nos. 16, 17, 18, 19, for July, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. [Weekly, April–September, Monthly, remainder of year.] Price, 25 cents a year.

Approved.

D. F. HOUSTON,
Secretary of Agriculture.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.



This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *August 30, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1913.]

NOTE.—Copies of any of the publications listed herein, except publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, U. S. Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants are respectfully referred to the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of any document, unless otherwise noted, is 5 cents.

The Department of Agriculture does not distribute or control the distribution of the publications of the State boards of agriculture or of the State agricultural experiment stations.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil survey of Macon County, Missouri. By H. Krusekopf, of the University of Missouri, and Floyd S. Bucher of the U. S. Department of Agriculture. Pp. 28, fig. 1, map. (From F. O. Soils 1911.) Price, 15 cents.

Soil Survey of Jefferson County, New York. By M. Earl Carr and B. D. Gilbert, of the U. S. Department of Agriculture, and T. M. Morrison and E. T. Maxon, of the New York State College of Agriculture. Pp. 83, fig. 1, maps 2. (From F. O. Soils 1911.) Price, 25 cents.

BULLETINS.

NEW.

Experiment Station Record, Vol. XXIX, No. 2, August, 1913. E. W. Allen, Ph. D.; Editor. Pp. 101–200. Price, 15 cents.

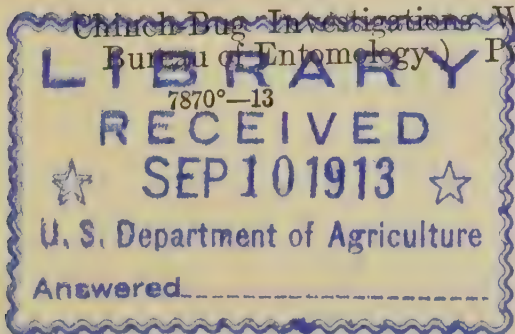
Same, Vol. XXVII, Index. Pp. 901–1003. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial; which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

REPRINTS.

The New Mexico Range Caterpillar. (Entomology Bulletin 85, Part 5.) Price, 10 cents.

Chinch Bug Investigations West of the Mississippi River. (Bulletin 95, Part 3, Bureau of Entomology.) Price, 10 cents.



CIRCULARS.

NEW.

Malta Fever, With Special Reference to Its Diagnosis and Control in Goats. By John R. Mohler, V. M. D., Chief of the Pathological Division, and Adolph Eichhorn, D. V. S., Senior Bacteriologist, Pathological Division. Pp. iv+119-136, pls. 4. [Reprint from Annual Report Bureau of Animal Industry, 1911.] (Circular 215, Bureau of Animal Industry.)

Legal Standards for Dairy products. Revised to April 1, 1913. Pp. 2. (Circular 218, Bureau of Animal Industry.)

Directory of the Officials and Organizations Concerned with the Protection of Birds and Game, 1913. Pp. 16. (Circular 94, Bureau of Biological Survey.)

Typical Specifications for the Fabrication and Erection of Steel Highway Bridges. Pp. 25. (Circular 100, Office of Public Roads.)

Monthly List of Publications for July, 1913. Pp. 2. (Division of Publications.)

The Monthly Crop Reporter was discontinued with No. 6 of Volume 15, for June, 1913.

REPRINT.

Hog Raising in the South. (Circular 30, Office of the Secretary.)

Actinomycosis, or Lumpy Jaw. (Circular 96, Bureau of Animal Industry.)

Methods for the Eradication of Gid. (Circular 165, Bureau of Animal Industry.)

Some Results of Cattle-Tick Eradication. (Circular 196, Bureau of Animal Industry.)

Proposed Regulations for the Protection of Migratory Birds. (Circular 92, Bureau of Biological Survey.)

Explanation of the Proposed Regulations for the Protection of Migratory Birds. (Circular 93, Bureau of Biological Survey.)

The San Jose Scale and Its Control. (Circular 124, Bureau of Entomology.)

FARMERS' BULLETIN.

NEW.

The Cultivation of American Ginseng. By Walter Van Fleet, Physiologist, Drug Plant, Poisonous-Plant, Physiological, and Fermentation Investigations. Pp. 14, figs. 3. Farmers' Bulletin 551.)

SEPARATES.

NEW.

The Handling of Dressed Poultry a Thousand Miles from the Market. By M. E. Pennington, Food Research Laboratory, Bureau of Chemistry. Pp. 285-292, pls. 13. (Separate 591, Yearbook 1912.)

Crop Safety on Mountain Slopes. By J. Cecil Alter, Observer, United States Weather Bureau. Pp. 309-317, pls. 2. (Separate 593, Yearbook 1912.)

Insects Injurious to the Onion Crop. By F. H. Chittenden, Sc. D., Bureau of Entomology. Pp. 319-334, pls. 9, figs. 10. (Separate 594, Yearbook 1912.)

Condensed and Desiccated Milk. By Levi Wells, Dairy Inspector, Dairy Division, Bureau of Animal Industry. Pp. 335-344. (Separate 595, Yearbook 1912.)

How the Produce Dealer May Improve the Quality of Poultry and Eggs. By H. C. Pierce, Food Research Laboratory, Bureau of Chemistry. Pp. 345-352, pl. 1. (Separate 596, Yearbook 1912.)

- A Successful Method of Marketing Vegetable Products.** By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 353-362. (Separate 597, Yearbook 1912.)
- Some Important Insect Enemies of Live Stock in the United States.** By F. C. Bishopp, Bureau of Entomology. Pp. 383-396, pls. 2, figs. 4. (Separate 600, Yearbook 1912.)
- National Forest Timber for the Small Operator.** By William B. Greeley, In Charge of Silviculture, Forest Service. Pp. 405-416, pls. 3. (Separate 602, Yearbook 1912.)
- Seed Collection on a Large Scale.** [Forest Tree Seed.] By Henry H. Farquhar, In Charge of Planting District 1, Forest Service. Pp. 433-442, pls. 4. (Separate 604, Yearbook 1912.)
- Improved Methods of Handling and Marketing Cotton.** By Charles J. Brand, Physiologist in Charge of Farmers' Cooperative Cotton Handling and Marketing, Bureau of Plant Industry. Pp. 443-462, pls. 4. (Separate 605, Yearbook 1912.)
- Dairying and Its Relation to Agriculture in Semiarid Sections.** By A. K. Risser, Senior Dairyman, Dairy Division, Bureau of Animal Industry. Pp. 463-470, pls. 4. (Separate 606, Yearbook 1912.)
- Agriculture in Public High Schools.** By Dick J. Crosby, Specialist in Agricultural Education, Office of Experiment Stations. Pp. 471-482, pls. 4. (Separate 607, Yearbook 1912.)
- Some New Grasses for the South.** By R. A. Oakley, Agronomist, Office of Forage Crop Investigations, Bureau of Plant Industry. Pp. 495-504, pls. 6. (Separate 609, Yearbook 1912.)
- Statistics of Principal Crops, 1912.** Pp. 557-654. (Separate 614, Yearbook 1912.)
- Live-Stock and Miscellaneous Agricultural Statistics, 1912.** Pp. 665-750. (Separate 615, Yearbook 1912.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review, Vol. 41; No. 5, May, 1913. Prepared under the direction of Henry E. Williams, Acting Chief U. S. Weather Bureau. Pp. 663-814, maps 2, charts 8. (W. B. No. 508.) Price, 35 cents; \$4 a year.

National Weekly Weather Bulletin Nos. 20, 21, 22, 23, for August, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly, April-September, Monthly, remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

Approved.
D. F. HOUSTON,
Secretary of Agriculture.



This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *September 30, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1913.]

NOTE.—Copies of any of the publications listed herein, except the *Journal of Agricultural Research* and separates therefrom and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants are respectfully referred to the Superintendent of Documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the Superintendent of Documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of any document, unless otherwise noted, is 5 cents.

The Department of Agriculture does not distribute or control the distribution of the publications of other departments of the Government, the State boards of agriculture, or of the State agricultural experiment stations.

ANNOUNCEMENT.

Under the new plan of publication work of the department, the independent series of bulletins and circulars heretofore issued by the various bureaus, divisions, and offices have been discontinued. The scientific and technical matter heretofore published in them will hereafter appear in the *JOURNAL OF AGRICULTURAL RESEARCH*, while the popular and semitechnical matter will be printed in a new departmental series of bulletins, beginning with No. 1, each of which will be devoted to the treatment of one subject.

The *JOURNAL OF AGRICULTURAL RESEARCH* will be distributed free to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and to such institutions as make suitable exchanges with the department. Miscellaneous applicants may procure it by purchase from the superintendent of documents, Government Printing Office, at a price fixed by him.

The departmental series of bulletins will be distributed to selected lists and to miscellaneous applicants as long as the supply lasts.

ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of the Ocala Area, Florida. By Charles N. Mooney and W. J. Latimer, of the U. S. Department of Agriculture, and Hermann Gunter and Emil Gunter, of the Florida State Geological Survey. Pp. 60, pls. 2, fig. 1, map. (From *F. O. Soils*, 1912.) Price, 15 cents.

Soil Survey of Ben Hill County, Georgia. By Allen L. Higgins, of the U. S. Department of Agriculture, and David D. Long, of the Georgia State College of Agriculture. Pp. 27, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Chattooga County, Georgia. By A. W. Mangum, of the U. S. Department of Agriculture, and David D. Long, of the Georgia State College of Agriculture. Pp. 57, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Winston County, Mississippi. By G. A. Crabb, of the U. S. Department of Agriculture, and G. B. Hightower, of the Mississippi Geological Survey. Pp. 47, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Johnson County, North Carolina. By W. Edward Hearn, of the U. S. Department of Agriculture, and L. L. Brinkley, of the North Carolina Department of Agriculture. Pp. 52, pls. 2, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Kewaunee County, Wisconsin. By W. J. Geib and A. H. Meyer, of the U. S. Department of Agriculture, and E. J. Gaul, of the Wisconsin Geological and Natural History Survey. Pp. 51, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

REPORTS.

Annual Report of Alaska Agricultural Experiment Stations for 1912. Pp. 96, pls. 17. (Document 1531, Office of Experiment Stations.) Price, 20 cents.

Annual Report of the Office of Experiment Stations for the year ended June 30, 1912. Pp. 383, pls. 17, figs. 3. Price, —.

BULLETINS.

Medical Milk Commissions and Certified Milk. By Ernest Kelly, In Charge Market Milk Investigations. Contribution from the Bureau of Animal Industry. Sept. 17, 1913. Pp. 38, pls. 5, fig. 1. (Department Bulletin 1.) Price, 10 cents.

A Normal Day's Work for Various Farm Operations. By H. H. Mowry, Assistant Agriculturist, Office of Farm Management, Bureau of Plant Industry. Contribution from the Bureau of Plant Industry. Sept. 23, 1913. Pp. 44. (Department Bulletin 3.) Price, 10 cents.

The Southern Corn Rootworm, or Budworm. By F. M. Webster, In Charge of Cereal and Forage Insect Investigations. Contribution from the Bureau of Entomology. Sept. 27, 1913. (Department Bulletin 5.) Price, 5 cents.

The Agricultural Utilization of Acid Lands by Means of Acid-Tolerant Crops. By Frederick V. Coville, Botanist in Charge of Economic and Systematic Botany. Contribution from the Bureau of Plant Industry. Sept. 19, 1913. Pp. 13. (Department Bulletin 6.) Price, 10 cents.

The Western Corn Rootworm. By F. M. Webster, In charge of Cereal and Forage Insect Investigations. Contribution from the Bureau of Entomology. Sept. 27, 1913. Pp. 8, figs. 5. (Department Bulletin 8.) Price, 5 cents.

Game Laws for 1913: A Summary of the Provisions Relating to Seasons, Export, Sale, Limits, and Licenses. By T. S. Palmer, W. F. Bancroft, and Frank L. Earnshaw, Assistants, Biological Survey. Contribution from the Bureau of Biological Survey. Sept. 16, 1913. Pp. 59. (Department Bulletin 22.) Price, 10 cents.

Vitrified Brick as a Paving Material for Country Roads. By Vernon M. Peirce, Chief Engineer, and Charles H. Moorefield, Senior Highway Engineer, Office of Public Roads. Contribution from the Office of Public Roads. Sept. 17, 1913. Pp. 34, pls. 10, figs. 3. (Department Bulletin 23.) Price, 10 cents.

Life Zones and Crop Zones of New Mexico. By Vernon Bailey, In Charge of Biological Investigations, Biological Survey. Pp. 100, pls. 16, figs. 6, map (North American Fauna No. 35.) Price, 45 cents.

Proceedings of the Seventeenth Annual Meeting of the American Association of Farmers' Institute Workers, held at Atlanta, Ga. Nov. 11, 12, 13, 1912. Edited by W. H. Beal and John Hamilton. Pp. 89. (Bulletin 256, Office of Experiment Stations.) Price, 10 cents.

Experiment Station Record, Vol. XXIX, No. 3, Abstract Number, E. W. Allen, Ph. D., Editor. Pp. 201-300. Price, 15 cents.

Same, Vol. XXVIII, Index. Pp. 901-1003. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The superintendent of documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

CIRCULARS.

Measles in Cattle. By B. H. Ransom, Ph. D., Chief of the Zoological Division. Pp. iv+101-117, pls. 7, figs. 2. [Reprint from Annual Report Bureau of Animal Industry, 1911.] (Circular 214, Bureau of Animal Industry.)

Infectious Abortion of Cattle and the Occurrence of Its Bacterium in Milk. I. Introductory Statement. By A. D. Melvin. II. The Bacillus of Infectious Abortion Found in Milk. By E. C. Schroeder and W. E. Cotton. III. Infectious Abortion of Cattle. By John R. Mohler and Jacob Traum. Pp. iv+137-183, pls. 7. [Reprint from Annual Report Bureau of Animal Industry, 1911.] (Circular 216, Bureau of Animal Industry.) Price, 10 cents.

REPRINTS.

The Ox Warble. (Circular 25, Bureau of Entomology.)

The Striped Cucumber Beetle. (Circular 31, Bureau of Entomology.)

The True Clothes Moth. (Circular 36, Bureau of Entomology.)

The Common Squash Bug. (Circular 39, Bureau of Entomology.)

Cockroaches. (Circular 51, Bureau of Entomology.)

The Greenhouse White Fly. (Circular 57, Bureau of Entomology.)

The Corn Root-Worms. (Circular 59, Bureau of Entomology.)

The Imported Cabbage Worm. (Circular 60, Bureau of Entomology.)

Root-Maggots and How to Control Them. (Circular 63, Bureau of Entomology.)

The Colorado Potato Beetle. (Circular 87, Bureau of Entomology.)

Mites and Lice on Poultry. (Circular 92, Bureau of Entomology.)

The Most Important Step in the Control of the Boll Weevil. (Circular 95, Bureau of Entomology.)

Insects Which Kill Forest Trees. (Circular 125, Bureau of Entomology.)

The Dying Hickory Trees: Cause and Remedy. (Circular 144, Bureau of Entomology.)

Insects Injurious to Mushrooms. (Circular 155, Bureau of Entomology.)

The Clover Mite. (Circular 158, Bureau of Entomology.)

The Manipulation of the Wax Scales of the Honey Bee. (Circular 161, Bureau of Entomology.)

Sacbrood, a Disease of Bees. (Circular 169, Bureau of Entomology.)

FARMERS' BULLETINS.

Kafir as a Grain Crop. By Carleton R. Ball, Agronomist, Office of Cereal Investigations, and Benton E. Rothgeb, Scientific Assistant, Office of Cereal Investigations, Bureau of Plant Industry. Pp. 19, figs. 8. (Farmers' Bulletin 552.)

Pop Corn for the Home. By C. P. Hartley, Physiologist in Charge of Crop Investigations, and J. G. Willier, Scientific Assistant, Office of Corn Investigations, Bureau of Plant Industry. Pp. 13, figs. 9. (Farmers' Bulletin 553.)

Pop Corn for the Market. By C. P. Hartley, Physiologist in Charge of Corn Investigations, and J. G. Willier, Scientific Assistant, Office of Corn Investigations. Pp. 16, figs. 12. (Farmers' Bulletin 554.)

Agricultural Outlook. Contributions from various bureaus of the department. Sept. 11, 1913. Contents: Weather conditions during past month with relation to crops.—Apple outlook.—Potato outlook.—Hog cholera.—Agricultural forecast and general review of crop conditions. Pp. 20. (Farmers' Bulletin 558.)

NOTE.—The Agricultural Outlook will be issued three or four times a year as a Farmers' Bulletin, and is designed to supersede the monthly Crop Reporter, which has been discontinued. No permanent mailing list for same has yet been established; notice of its issue will appear in the Monthly List, and it will be for general distribution.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the superintendent of documents, Government Printing Office, at the prices noted herein.

Bulletin of the Mount Weather Observatory, vol. 5, pt. 6. Prepared under the direction of the Acting Chief United States Weather Bureau. Pp. 365-419, figs. 55. (W. B. No. 505.) Price, 25 cents.

Bulletin of the Mount Weather Observatory, vol. 6, pt. 1. Prepared under the direction of the Acting Chief United States Weather Bureau. Pp. 1-34, fig. 1. (W. B. No. 511.) Price, 25 cents.

Monthly Weather Review, vol. 41; No. 6, June, 1913. Prepared under the direction of Henry E. Williams, Acting Chief U. S. Weather Bureau. Pp. 815-966, maps 2, charts 7. (W. B. No. 510.) Price, 35 cents; \$4 a year.

National Weekly Weather Bulletin Nos. 24, 25, 26, 27, 28, for September, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly, April-September, Monthly, remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,

Editor and Chief Division of Publications.

Approved.

D. F. HOUSTON,

Secretary of Agriculture.



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This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., October 31, 1913.

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1913.]

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ADVANCE SHEETS, FIELD OPERATIONS OF THE BUREAU OF SOILS.

Soil Survey of New London County, Connecticut. By W. E. McLendon. Pp. 29, fig. 1, map. (From *F. O. Soils*, 1912.) Price, 15 cents.

Soil Survey of Dougherty County, Georgia. By M. Earl Carr, H. Jennings, and Thomas D. Rice, of the U. S. Department of Agriculture, and David D. Long, of the Georgia State College of Agriculture. Pp. 63, fig. 1, map. (From *F. O. Soils*, 1912.) Price, 15 cents.

Soil Survey of Troup County, Georgia. By A. T. Sweet and Howard C. Smith. Pp. 25, fig. 1, map. (From *F. O. Soils*, 1912.) Price, 15 cents.

Soil Survey of Otoe County, Nebraska. By William G. Smith, of the U. S. Department of Agriculture and L. T. Skinner, of the Nebraska Soil Survey. Pp. 31, fig. 1, map. (From *F. O. Soils*, 1912.) Price, 15 cents.

Soil Survey of the Sussex Area, New Jersey. By H. Jennings, of the U. S. Department of Agriculture, and I. L. Owen, I. V. Stone, and W. R. Robbers, of the New Jersey Agricultural Experiment Station. Pp. 62, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Columbia County, Wisconsin. By W. J. Geib and Arthur E. Taylor, of the U. S. Department of Agriculture, and Guy Conrey, of the Wisconsin Geological and Natural History Survey. Pp. 61, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Juneau County, Wisconsin. By W. J. Geib and E. B. Watson, of the U. S. Department of Agriculture, and L. R. Schoenmann, C. A. Le Clair, and O. E. Baker, of the Wisconsin Geological and Natural History Survey. Pp. 54, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

BULLETINS.

NEW.

The Reseeding of Depleted Grazing Lands to Cultivated Forage Plants. By Arthur W. Sampson, Plant Ecologist, with prefatory note by Frederick V. Coville, Botanist in Charge of Economic and Systematic Botany. Pp. 34, pls. 8, figs. 4. Contribution from the Forest Service in cooperation with the Bureau of Plant Industry. Oct. 27, 1913. (Department Bulletin 4.) Price, 10 cents.

Agricultural Training Courses for Employed Teachers, with a Suggested Reading Course in Agriculture Based on Farmers' Bulletins. By Edward R. Jackson, Assistant in Agricultural Education. Contribution from the Office of Experiment Stations. Oct. 18, 1913. Pp. 17. (Department Bulletin 7.) Price, 5 cents.

Progress Report of Cooperative Irrigation Experiments at California University Farm, Davis, California, 1909-1912. By S. H. Beckett, Irrigation Engineer. Pp. 21, figs. 7. Contribution from Office of Experiment Stations. Oct. 30, 1913. (Department Bulletin 10.) Price, 5 cents.

Uses of Commercial Woods of the United States. Beech, Birches, and Maples. By Hu Maxwell, Expert. Contribution from the Forest Service. Oct. 11, 1913. Pp. 56. (Department Bulletin 12.) Price, 10 cents.

A Sealed Paper Carton to Protect Cereals from Insect Attack. By Willaim B. Parker, Entomological Assistant. Contribution from the Bureau of Entomology. Oct. 16, 1913. Pp. 8, figs. 8. (Department Bulletin 15.) Price, 5 cents.

The Culture of Flue-Cured Tobacco. By E. H. Mathewson, Crop Technologist, Tobacco and Plant-Nutrition Investigations. Contribution from the Bureau of Plant Industry. Oct. 22, 1913. Pp. 36, figs. 12. (Department Bulletin 16.) Price, 10 cents.

A Report on the Phosphate Fields of South Carolina. By Wm. H. Waggaman, Scientist in Investigation of Fertilizer Resources. Contribution from the Bureau of Soils. Oct. 1, 1913. Pp. 12, pls. 3, fig. 1. (Department Bulletin 18.) Price, 5 cents.

Game Laws for 1913: A Summary of the Provisions Relating to Seasons, Export, Sale, Limits, and Licenses. By T. S. Palmer, W. F. Bancroft, and Frank L. Earnshaw, Assistants, Biological Survey. Contribution from the Bureau of Biological Survey. Oct. 15, 1913. [Revised edition; contains the Proclamation of the President and the revised regulations for the Protection of Migratory Birds.] Pp. 59. (Department Bulletin 22.) Price, 10 cents.

The Rose Slug-Caterpillar. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 9, fig. 1. (Bulletin 124, Bureau of Entomology.) Price, 5 cents.

The Florida Fern Caterpillar. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 11, fig. 1. (Bulletin 125, Bureau of Entomology.) Price, 5 cents.

Studies on Acid Soils of Porto Rico. By Oscar Loew, Physiologist. Pp. 23. (Bulletin 13, Porto Rico Agricultural Experiment Station.) Price, 5 cents.

Experiment Station Record, Vol. XXIX, No. 4, September, 1913, E. W. Allen, Ph. D., Editor. Pp. 301-400. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

Journal of Agricultural Research. Vol. 1, No. 1. October, 1913. Contents: Foreword. By B. T. Galloway.—Citrus Ichangensis, a Promising, Hardy, New Species from Southwestern China and Assam. By Walter T. Swingle.—Cysticercus Ovis, the Cause of Tapeworm Cysts in Mutton. By B. H. Ransom.—The Serpentine Leaf-Miner. By F. M. Webster and T. H. Parks. Pp. 88, pls. 5, figs. 37. Price, 25 cents.

NOTE.—The Superintendent of Documents will receive subscriptions for this publication, the price being \$2.50 per volume of 12 numbers.

Monthly Bulletin of the Library. June, 1913. Vol. 4, No. 6. Pp. 162-192. (Library.) Price, 5 cents.

The water Requirement of Plants. I. Investigations in the Great Plains in 1910 and 1911. By Lyman J. Briggs, Biophysicist in Charge of Biophysical Investigations, and H. L. Shantz Plant Physiologist, Alkali and Drought Resistant Plant Investigations. Pp. 49, pls. 11, figs. 2. (Bulletin 284, Bureau of Plant Industry.) Price, 15 cents.

The Water Requirement of Plants. II. A Review of the Literature. By Lyman J. Briggs, Biophysicist in Charge of Biophysical Investigations, and H. L. Shantz, Plant Physiologist, Alkali and Drought Resistant Plant Investigations. Pp. 96, figs. 6. (Bulletin 285, Bureau of Plant Industry.) Price, 10 cents.

FARMERS' BULLETINS.

The Making and Feeding of Silage. Contents: Making and Feeding of Silage. By T. E. Woodward.—Silage for Horses. By George M. Rommel.—Silage for Beef Cattle. By W. F. Ward.—Silage for Sheep. By E. L. Shaw. Pp. 24, figs. 6. Contribution from the Bureau of Animal Industry. Oct. 25, 1913. (Farmers' Bulletin 556.)

The Potato-Tuber Moth. By F. H. Chittenden, In Charge of Truck Crop and Stored Product Insect Investigations. Contribution from the Bureau of Entomology. Oct. 2, 1913. Pp. 7, figs. 4. (Farmers' Bulletin 557.)

Use of Corn, Kafir, and Cowpeas in the Home. By C. F. Langworthy, Ph. D., Sc. D., Chief of Nutrition Investigations, and Caroline B. Hunt, A. B., Expert in Nutrition, Office of Experiment Stations. Contribution from the Office of Experiment Stations. Oct. 16, 1913. Pp. 12. (Farmers' Bulletin 559.)

The Agricultural Outlook. Contributions from various bureaus of the department. Oct. 11, 1913. Contents: Agricultural Forecast and General Review of Crop Conditions.—Weather Conditions During the Past Month with Relation to Crops.—The Outlook for Meat Production.—Need for Local Markets for Live Stock.—Future Meat Supply of the United States.—Influence of the Average Farm on the Meat Supply. Pp. 29. (Farmers' Bulletin 560.)

NOTE.—The Agricultural Outlook will be issued at irregular intervals as a Farmers' Bulletin, superseding the Crop Register, which has been discontinued.

SEPARATES.

NEW.

Promising New Fruits. By William A. Taylor, Pomologist and Chief, and H. P. Gould, Pomologist in Charge of Fruit District Investigations, Bureau of Plant Industry. Pp. 261-278, pls. 8. (Separate 589, Yearbook 1912.)

The Chestnut Bark Disease. By Haven Metcalf, Pathologist in Charge of Investigations in Forest Pathology, Bureau of Plant Industry. Pp. 363-372, pls. 4. (Separate 598, Yearbook 1912.)

Truck Soils of the Atlantic Coast Region. By Jay A. Bonsteel, Scientist in Soil Survey, Bureau of Soils. Pp. 417-432, pls. 6, fig. 1. (Separate 603, Yearbook 1912.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review, vol. 41; No. 7, July, 1913. Prepared under the direction of Charles F. Marvin, Chief U. S. Weather Bureau. Pp. 967-1130, maps 2, charts 7. (W. B. No. 513.) Price, 35 cents; \$4 a year.

National Weekly Weather Bulletin No. 29, for October, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly, April-September, Monthly, remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,

Editor and Chief Division of Publications.

Approved.

D. F. HOUSTON,

Secretary of Agriculture.



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This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., November 29, 1913.

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1913.]

NOTE.—Copies of any of the publications listed herein, except the Journal of Agricultural Research and separates therefrom and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants are respectfully referred to the superintendent of documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the superintendent of documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of any document, unless otherwise noted, is 5 cents.

The Department of Agriculture does not distribute or control the distribution of the publications of other departments of the Government, the State boards of agriculture, or of the State agricultural experiment stations.

REPORTS.

Annual Report of The Guam Agricultural Experiment Station for 1912. Pp. 29, pls. 6, figs. 7. Price, 5 cents.

Report of the Chief of the Division of Accounts and Disbursements, 1913. Pp. 5.

Report of the Appointment Clerk, 1913. Pp. 3.

Report of the Chief of the Bureau of Biological Survey, 1913. Pp. 14.

Report of the Editor, 1913. Pp. 14.

Report of the Entomologist, 1913. Pp. 14.

Report of the Director of the Office of Experiment Stations, 1913. Pp. 14.

Report of the Federal Horticultural Board, 1913. Pp. 11.

Report of the Insecticide and Fungicide Board, 1913. Pp. 3.

Report of the Librarian, 1913. Pp. 8.

Report of the Director of the Office of Public Roads, 1913. Pp. 13.

Report of the Chief of the Bureau of Soils, 1913. Pp. 8.

Report of the solicitor, 1913. Pp. 28.

Report of the Chief of the Weather Bureau, 1913. Pp. 8.

SERIALS.

Journal of Agricultural Research. Vol. 1. No. 2. November, 1913. Contents: The Occurrence of a Cotton Boll Weevil in Arizona. By W. Dwight Pierce.—The Diagnosis of Dourine by Complement Fixation. By John R. Mohler, Adolph Eichhorn, and John M. Buck.—Three Undescribed Heart-Rots of Hardwood Trees, Especially of Oak. By W. H. Long.—Individual Variation in the Alkaloidal Content of Belladonna Plants. By Arthur F. Sievers.—The Pubescent-Fruited Species of Prunus of the Southwestern States. By Silas C. Mason. Pp. 89–178, pls. 6–16, figs. 8. Price, 25 cents.

NOTE.—The JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The superintendent of documents will receive subscriptions for this publication, the price being \$2.50 per volume of 12 numbers.

Experiment Station Record. Vol. XXIX. No. 5. October, 1913. E. W. Allen, Ph. D., editor. Pp. 401–500. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The superintendent of documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

SOIL SURVEYS.

Soil Survey of Chester County, South Carolina. By W. E. McLendon and G. A. Crabb. Pp. 41, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of La Crosse County, Wisconsin. By W. J. Gelb and Clarence Lounsbury, of the U. S. Department of Agriculture, and T. J. Dunnewald, of the Wisconsin Geological and Natural History Survey. Pp. 45, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

BULLETINS.

The Refrigeration of Dressed Poultry in Transit. By M. E. Pennington, Chief, Food Research Laboratory; A. D. Greenlee, Assistant Chemist; H. C. Pierce, E. Witmer, H. A. McAleer, M. K. Jenkins, J. S. Hepburn, M. O. Stafford, H. C. Robertson, and E. L. Connolly. Pp. 35, pl. 1, figs. 19. Contribution from the Bureau of Chemistry. Nov. 5, 1913. (Department Bulletin 17.) Price, 10 cents.

Bouillon Cubes: Their Contents and Food Value Compared with Meat Extracts and Home-made Preparations of Meat. By F. C. Cox, Physiological Chemist. Pp. 7, figs. 10. Contribution from the Bureau of Chemistry. Nov. 5, 1913. (Department Bulletin 27.) Price, 5 cents.

Experiments in Bulb Growing at the United States Bulb Garden at Bellingham, Washington. By P. H. Dorsett, Plant Introducer in Charge of Plant-Introduction Field Stations. Pp. 21, figs. 21. Contribution from the Bureau of Plant Industry. Nov. 11, 1913. (Department Bulletin 28.) Price, 5 cents.

Crew Work, Costs, and Returns in Commercial Orchardling in West Virginia. By J. H. Arnold, Agriculturist, Office of Farm Management. Pp. 24, figs. 3. Contribution from the Bureau of Plant Industry. Nov. 21, 1913. (Department Bulletin 29.) Price, 5 cents.

Cereal Investigations at the Nephi Substation. By P. V. Cardon, Scientific Assistant, Office of Cereal Investigations. (In Cooperation with the Utah Agricultural Experiment Station.) Pp. 50, figs. 9. Contribution from the Bureau of Plant Industry. Nov. 25, 1913. (Department Bulletin 30.) Price, 10 cents.

An Example of Successful Farm Management in Southern New York. By M. C. Burritt, Assistant Agriculturist, and John H. Barron, Agent, Office of Farm Management. Pp. 24, figs. 5. Contribution from the Bureau of Plant Industry. Nov. 22, 1913. (Department Bulletin 32.) Price, 5 cents.

Studies of Primary Cotton Market Conditions in Oklahoma. By Wells A. Sherman, Assistant in Market Surveys; Fred. Taylor, Cotton Technologist; and Charles J. Brand, Chief. Pp. 36. Contribution from the Office of Markets. Nov. 15, 1913. (Department Bulletin 36.) Price, 5 cents.

Seed Selection of Egyptian Cotton. By Thomas H. Kearney, Physiologist, Alkali and Drought Resistant Plant Investigations. Pp. 8. Contribution from the Bureau of Plant Industry. Nov. 19, 1913. (Department Bulletin 38.) Price, 5 cents.

Experiments in the Use of Sheep in the Eradication of the Rocky Mountain Spotted Fever Tick. By H. P. Wood. Pp. 11. Contribution from the Bureau of Entomology. Nov. 22, 1913. (Department Bulletin 45.) Price, 5 cents.

Lessons for American Potato Growers from German Experiences. By W. A. Orton, Pathologist in Charge of Cotton and Truck Disease and Sugar-Plant Investigations. Pp. 12. Contribution from the Bureau of Plant Industry. Nov. 25, 1913. (Department Bulletin 47.) Price, 5 cents.

The Use Book: A Manual for Users of the National Forests. [Fourth Revision.] Pp. 88. (Forest Service.) Price, 10 cents.

FARMERS' BULLETINS.

The Agricultural Outlook. Contribution from the Bureau of Statistics. Nov. 11, 1913. Contains estimates of the amount and value of the principal crops produced in the United States in 1913. Pp. 14. (Farmers' Bulletin 563.)

NOTE.—The Agricultural Outlook will be issued at irregular intervals as a Farmers' Bulletin, superseding the Crop Reporter, which has been discontinued.

SEPARATES.

Drainage Investigations, 1911-12. By H. H. Barrows, Office Engineer, Drainage Investigations. Pp. 29-37. (From Annual Report Office of Experiment Stations, 1912.)

Farmers' Institutes and Agricultural Extension Work in the United States, 1912. By John Hamilton, Farmers' Institute Specialist. Pp. 333-383. (From Annual Report Office of Experiment Stations, 1912.)

Progress in Agricultural Education, 1912. By C. H. Lane, Assistant in Agricultural Education. Pp. 279-332, pls. 7, figs. 3. (From Annual Report Office of Experiment Stations, 1912.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review, vol. 41, No. 8, August, 1913. Pp. 1131-1284, maps 2, charts 7. (W. B. No. 515.) Price, 35 cents; \$4 a year.

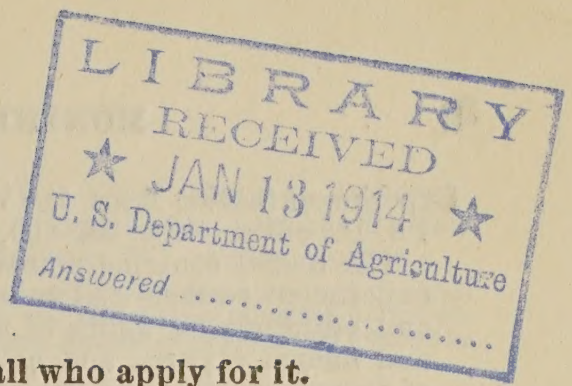
National Weekly Weather Bulletin No. 30, for November, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Weekly April-September, Monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

Approved.

D. F. HOUSTON,
Secretary of Agriculture.





This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., December 31, 1913.

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1913.]

NOTE.—Copies of any of the publications listed herein, except the *Journal of Agricultural Research* and separates therefrom and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. The edition of many of the publications is necessarily limited, and when same is exhausted applicants are respectfully referred to the superintendent of documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the superintendent of documents for publications **without sending the price of same**, as he does not distribute them except by sale. The price of any document, unless otherwise noted, is 5 cents.

The Department of Agriculture does not distribute or control the distribution of the publications of other departments of the Government, the State boards of agriculture, or of the State agricultural experiment stations.

REPORTS.

- Report of the Secretary, 1913. Pp. 58.
Report of the Chief of the Bureau of Animal Industry, 1913. Pp. 34.
Report of the Chemist, 1913. Pp. 9.
Report of the Forester, 1913. Pp. 56.
Report of the Chief of the Bureau of Plant Industry, 1913. Pp. 29.
Report of the Chief of the Bureau of Statistics, 1913. Pp. 6.

SERIALS.

The *Journal of Agricultural Research*. Vol. 1. No. 3. December, 1913. Contents: Selective Adsorption by Soils. By E. G. Parker.—A Bacterium Causing a Disease of Sugar-Beet and Nasturtium Leaves. By Nellie A. Brown and Clara O. Jamieson.—The *Calliephialtes* Parasite of the Codling Moth. By R. A. Cushman.—*Polyporus Dryadeus*, a Root Parasite on the Oak. By W. H. Long.—The Foot-Rot of the Sweet Potato. By L. L. Harter. Pp. 179-274, pls. 17-28, figs. 23. Price, 25 cents.

NOTE.—The *JOURNAL OF AGRICULTURAL RESEARCH* will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The superintendent of documents will receive subscriptions for this publication, the price being \$2.50 per volume of 12 numbers.

Experiment Station Record. Vol. XXIX. No. 6. Abstract number. E. W. Allen, Ph. D., editor. Pp. 501-600. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The superintendent of documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at \$1 a volume.

SOIL SURVEYS.

Soil Survey of Clarke County, Alabama. By C. S. Waldrop and L. Cantrell, of the U. S. Department of Agriculture, and P. H. Avary and N. Eric Bell of the Alabama Department of Agriculture and Industries. Pp. 31, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of East Feliciana Parish, Louisiana. By Charles J. Mann and Percy O. Wood. Pp. 41, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Lincoln County, Mississippi. By A. L. Goodman, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 29, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

A Reconnaissance Soil Survey of Northeastern Pennsylvania. By Charles F. Shaw, of the U. S. Department of Agriculture, and J. M. McKee and W. G. Ross, of the Pennsylvania State College. Pp. 63, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Harrison County, Texas. By Cornelius Van Duyne and W. C. Byers. Pp. 47, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

BULLETINS.

The Fish-Scrap Fertilizer Industry of the Atlantic Coast. By J. W. Turrentine, Scientist in Soil Laboratory Investigations. Pp. 50, pls. 6. Contribution from the Bureau of Soils. Dec. 27, 1913. (Department Bulletin 2.) Price, 10 cents.

A part of the general plan to survey the Nation's assets in fertilizer materials. The information is largely statistically expressed in terms of equipment, output, and present and proposed development, and is of special value to manufacturers of the fertilizers, but of course of general interest to farmers who are purchasers of fertilizers containing fish scrap.

An Economic Study of Acacias. By Charles Howard Shinn, Forest Examiner. Pp. 38, pls. 11. Contribution from the Forest Service. Dec. 5, 1913. (Department Bulletin 9.) Price, 10 cents.

Attention is called to the economic importance of the leading acacias with the idea of bringing about more general planting, as many species have proved themselves to be entirely at home over large areas, and in fact have become naturalized, in California. Warning is given, however, that fuller and extended work on the growth and products of acacias, based on American-grown trees, is necessary before extensive commercial operations are undertaken, as the rates of growth and the yields of various species on different soils, especially under plantation conditions, have not been definitely determined.

The Management of Sheep on the Farm. By Edward L. Shaw and Lewis L. Heller, of the Animal Husbandry Division. Pp. 52, pls. 4, figs. 15. Contribution from the Bureau of Animal Industry. Dec. 17, 1913. (Department Bulletin 20.) Price, 10 cents.

A popular article of interest to farmers everywhere, treating of the raising of sheep on farms (not the western ranges), showing how to establish a flock, size of flock, how to care for it, the feed and its production, shearing and care of the wool, cost of maintenance per head, and value of sheep as soil improvers and weed destroyers. Thousands of farms which now raise no sheep and many others where the size of the flock should be increased would show an added profit to the farmer if sheep raising was made a prominent factor in their management. Mutton is the logical solution of the high cost of meat problem, and the farms, not the ranges, must supply it.

The Shrinkage in Weight of Beef Cattle in Transit. I. Southwestern Shrinkage Work of 1910-11. By W. F. Ward.—II. Northwestern Shrinkage Work of 1911-12. By James E. Downing.—III. Northwestern and Southwestern Shrinkage Work of 1911. By W. F. Ward.—IV. Summary of the Three Years' Shrinkage Work. By W. F. Ward. Pp. 78. Contribution from the Bureau of Animal Industry. Dec. 16, 1913. (Department Bulletin 25.) Price, 10 cents.

A three years' study of the loss of weight in beef cattle shipped to market from the Northwestern and Southwestern ranges and from the feeding pens of the Central West, of interest to shippers and traders in market cattle, providing data to be used as an equitable basis for adjusting claims, and upon which cattlemen can calculate from the market reports the value of their cattle at home.

American Medicinal Flowers, Fruits, and Seeds. By Alice Henkel, Assistant, Economic and Systematic Botany. Pp. 16, figs. 12. Contribution from the Bureau of Plant Industry. Dec. 18, 1913. (Department Bulletin 26.) Price, 5 cents.

A list of 14 plants furnishing medicinal flowers, fruits, and seeds, with synonyms and pharmacopœial name, the common name, habitat, range, description, and information in regard to the collection, prices, and uses of the parts which seem to be in greatest demand at present. Of interest to collectors, growers, and drug dealers generally.

Behavior, Under Cultural Conditions, of Species of Cacti Known as *Opuntia*. By David Griffiths, Agriculturist, Office of Farm Management. Pp. 24, pls. 8. Contribution from Bureau of Plant Industry. Dec. 30, 1913. (Department Bulletin 31.) Price, 10 cents.

Investigations conducted at Brownsville and San Antonio, Tex., and Chico, Cal., upon over 1,000 varieties of prickly pear and cane cacti have accumulated a large number of data, a few of the salient features of which are detailed in this paper. Full details are reserved for future publications, but scientists and stock raisers living in the cacti-producing country will find here points having a bearing on some of the economic aspects of this group of plants.

Nitrogenous Fertilizers Obtainable in the United States. By J. W. Turrentine, Scientist in Soil Laboratory Investigations. Pp. 12. Contribution from the Bureau of Soils. Dec. 8, 1913. (Department Bulletin 37.) Price, 5 cents.

A report on the production and consumption of sodium nitrate, sulphate of ammonia, artificial nitrates, calcium cyanamide, tankage, and dried blood in the United States, which is of special interest to the manufacturers and users of fertilizers, because of the agronomic necessity which compels the use of nitrogenous fertilizers and the scarcity of nitrogenous compounds available for fertilizer purposes.

American-grown Paprika Pepper. By Thomas B. Young, Scientific Assistant, and Rodney H. True, Physiologist in Charge, Drug-Plant, Poisonous-Plant, Physiological and Fermentation Investigations. Pp. 24, figs. 11. Contribution from the Bureau of Plant Industry. Dec. 16, 1913. (Department Bulletin 43.) Price, 5 cents.

Tells how to grow, cultivate, and cure the crop, and discusses the economic, as well as the agricultural, phases of cultivating and marketing red peppers of the type furnishing the Hungarian paprika. It is specially interesting to the farmers of the South Atlantic and Gulf States or other localities with a long growing season and ample and well-distributed rainfall.

The Blights of Coniferous Nursery Stock. By Carl Hartley, Assistant Pathologist, Office of Investigations in Forest Pathology. Pp. 21. Contribution from the Bureau of Plant Industry. Dec. 12, 1913. (Department Bulletin 44.) Price, 5 cents.

A discussion of blights occurring in coniferous trees in nurseries, in which sun scorch, winterkilling, mulch injury, needle diseases, and red-cedar blight are described. Distinguishing characters and preventive measures have been determined.

A Descriptive Catalogue of the Soils of Virginia so far Identified in the Soil Survey. Pp. 21, figs. 7. Contribution from the Bureau of Soils. Dec. 15, 1913. (Department Bulletin 46.) Price, 5 cents.

A brief description of the different soils of Virginia, found in the 12 widely separated areas surveyed by the Bureau of Soils. Parts or all of 31 of the counties of the State are included, and the paper contains information of value to all farmers of the State.

The Shrinkage of Shelled Corn While in Cars in Transit. By J. W. Duvel, Crop Technologist in Charge of Grain Standardization Investigations, and Laurel Duval, formerly in Charge of the Grain Standardization Laboratory at Baltimore, Md. Pp. 21, figs. 8. Contribution from the Bureau of Plant Industry. Dec. 19, 1913. (Department Bulletin 48.) Price, 5 cents.

The data contained comprise the results of four special shipments of corn from Baltimore, Md., to Chicago, Ill., and return, and show a natural shrinkage in commercial corn during transit and while in storage, presenting to shippers and dealers valuable information as to variation due to moisture content and atmospheric conditions.

Proceedings of the Twenty-Ninth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., Sept. 16-18, 1912. Edited by W. D. Bigelow, Secretary of the Association, with the Collaboration of G. O. Savage, Editor, Bureau of Chemistry. Pp. 245, figs. 2. (Bulletin 162, Bureau of Chemistry.) Price, 25 cents.

All general discussion has been omitted, only the reports and correlated papers which affect conduct of the work being presented.

The Abutilon Moth. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 10, pls. 5. (Bulletin 126, Bureau of Entomology.) Price, 5 cents.

A technical paper, giving the habits, synonymy, description, experiments in control, and bibliography of a pest that badly injured okra, hollyhock, and abutilon at Diamond Springs, Va., in 1909.

FARMERS' BULLETINS.

Bean Growing in Eastern Washington and Oregon, and Northern Idaho. By Lee W. Fluharty, Assistant Agriculturist, Office of Farm Management. Pp. 12, figs. 5. Contribution from the Bureau of Plant Industry. Dec. 8, 1913. (Farmers' Bulletin 561.)

The Organization of Boys' and Girls' Poultry Clubs. By Harry M. Lamon, Senior Animal Husbandman in Poultry Investigations. Pp. 12, figs. 6. Contribution from the Bureau of Animal Industry. Dec. 18, 1913. (Farmers' Bulletin 562.)

The Agricultural Outlook. Contribution from the Bureau of Statistics. Dec. 27, 1913. Estimated Farm production for 1913 Compared with that of 1912. Pp. 35. (Farmers' Bulletin 570.)

NOTE.—The Agricultural Outlook will be issued at irregular intervals as a Farmers' Bulletin, superseding the Crop Reporter, which has been discontinued.

SEPARATES.

Work and Expenditures of the Agricultural Experiment Stations, 1912. By E. W. Allen and J. I. Schulte. Pp. 43-231, pls. 10. (From Annual Report Office of Experiment Stations, 1912.)

Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1912. By Butler B. Hare, Assistant in Agricultural Education. Pp. 233-277. (From Annual Report Office of Experiment Stations, 1912.)

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Bulletin of the Mount Weather Observatory, vol. 6, pt. 2. Pp. 35-60, figs. 12. (W. B. No. 517.) Price, 25 cents.

Snow and Ice Bulletins for December 2, 9, 16, 23, 30. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

National Weekly Weather Bulletin No. 31, for December, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly April-September, Monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,

Editor and Chief Division of Publications.

Approved.

D. F. HOUSTON,

Secretary of Agriculture.

